

Cancer Incidence and Mortality in Nebraska: 2002



May, 2005

The Nebraska Cancer Registry contains a wealth of information,
not all of which can be included in this summary report:

What types of data are available?

- Demographic information: age at diagnosis, gender, race/ethnicity, county of residence
- Medical history: diagnosis, primary site, cell type, stage of disease at diagnosis
- Therapy: surgery, radiation therapy, chemotherapy, immunotherapy, hormone therapy
- Follow-Up: length of survival, cause of death

Who may request data from the Nebraska Cancer Registry?

- Medical Researchers
- Health Planners
- Marketing Researchers
- Health Care Facility Administrators
- Physicians
- Nurses
- Health Care Facility Cancer Committees
- Oncology Conference Planners and Speakers
- Patient Care Evaluators
- Pharmaceutical Companies
- Government Officials
- Concerned Citizens
- Students

How do I make a request?

Contact the Data Management Section at the
Nebraska Health and Human Services System
Department of Regulation and Licensure
P.O. Box 95007, Lincoln, NE 68509-5007
Phone 402/471-2241, Monday-Friday between 8 AM and 5 PM

Please note: To comply with confidentiality regulations, the NHHSS reserves the right to limit the amount and type of data that are released in response to a request.

NEBRASKA CANCER REGISTRY 2002 ANNUAL REPORT

Nebraska Health & Human Services System
Department of Regulation and Licensure
Richard A. Raymond, MD, Director

Public Health Assurance Division
Data Management Section

Kurt Weiss
Section Administrator

Carla Becker, RHIA
Health Data Manager

Victor Filos, MS
Statistical Analyst

Vickie Krueger
Administrative Assistant

Department of Finance and Support
Richard P. Nelson, Director

Financial Services Division
Research and Performance Measurement Unit

Norm Nelson, MS
Statistical Analyst

Bryan Rettig, MS
Program Analyst

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**Nebraska Cancer Registry Advisory Committee
Members**

James Anderson, PhD
Dept. of Preventive and Societal Medicine
University of Nebraska Medical Center

Daniel Lydiatt, MD
Methodist Cancer Center

John Casey, MD
Lincoln, Nebraska

Mary Meysenburg
Nebraska Methodist Hospital

Ray Gaines, MD
Department of Surgery
Creighton University

Judy Paradies, CTR
Nebraska Cancer Registry

Glen Hoffschneider
Nebraska Methodist Hospital

DiAnna R. Schimek
Senator, Nebraska Unicameral

F. William Karrer, MD
Methodist Cancer Center

Shelly Spencer, CTR
St. Elizabeth Regional Medical Center

Donna Keller, RHIT
Nebraska Health System – Clarkson

Alan G. Thorson, MD, FACS
Colon and Rectal Surgery
University of Nebraska Medical Center

Dennis Weisenburger, MD
Dept. of Pathology and Microbiology
University of Nebraska Medical Center

Nebraska Cancer Registry
Data Collection Staff

Judy Paradies, CTR
Coordinator

Suzanne McKinney, CTR
Abstractor

Mary Lien, CTR
Quality Assurance Coordinator

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INTRODUCTION

This publication represents the 16th annual statistical summary of the Nebraska Cancer Registry (NCR) since it began collecting data in 1987. The purpose of this report is to present the registry's most recent data to the citizens of the State of Nebraska. The majority of the data cover cancer diagnoses and cancer deaths that occurred between January 1, 2002, and December 31, 2002, as well as during the past five years (January 1, 1998-December 31, 2002).

The NCR was founded in 1986, when the Nebraska Unicameral authorized funding for a state cancer registry using a portion of funds generated by the state's cigarette tax. The establishment of the registry successfully combined the efforts of many Nebraska physicians, legislators, concerned citizens, and the Nebraska Medical Foundation, all of whom had worked for years toward this goal. The Nebraska Medical Foundation also helped to establish the registry with financial assistance. Since 1994, the NCR has received additional funding from the Centers for Disease Control and Prevention (CDC).

The Nebraska Health and Human Services System (NHHSS) currently manages the NCR, although data collection and editing are performed by the Nebraska Methodist Hospital of Omaha, under contract to the Nebraska Medical Foundation. Analysis of registry data and preparation of the annual statistical report are the responsibility of the NHHSS.

The purpose of the registry is to gather data that describe how many Nebraska residents are diagnosed with cancer, what types of cancer they have, what type of treatment they receive, and how long they survive after diagnosis. These data are extensively utilized, both inside and outside of the NHHSS. Within the agency, they are monitored closely from year to year to determine the trends that are developing, and to see how Nebraska's cancer experience compares to the rest of the

nation. They are indispensable for investigating reports of possible cancer clusters. The NHHSS also uses these data to help with the planning and evaluation of programs in the area of cancer control. Outside of the NHHSS the registry has furnished information to many individuals, institutions, and organizations, such as the North American Association of Central Cancer Registries, the University of Nebraska Medical Center, the National Cancer Institute, the American Cancer Society (ACS), and CDC. The NCR also contributes data to several national cancer incidence databases (see Methodology section, page 3).

All individual records in the cancer registry are kept in strict confidence as prescribed by both state and federal law. The NCR follows all of the privacy safeguards in the Health Insurance Portability and Accountability Act (HIPAA), although some of the procedural requirements do not apply to the registry.

The NHHSS welcomes inquiries about cancer from the public for aggregate statistics or general information from the registry. To obtain cancer data or information about the registry not included in this report, please refer to the instructions provided inside the front cover. For more information about cancer control activities within the NHHSS, please call the Division of Health Services at 402/471-6038, or write to the Division at P.O. Box 95044, Lincoln, NE 68509-5044.

An electronic copy of this report is now available to Internet users via the NHHSS web site. The URL address is <http://www.hhss.ne.gov/srd/srdindex.htm>.

METHODOLOGY

Data Collection and Management

The NCR gathers data on Nebraska residents diagnosed and treated for invasive and in situ tumors. Benign tumors (although benign brain and other central nervous system tumors, have become reportable as of January 1, 2004), benign polyps, basal cell carcinomas of the skin, and in situ and localized squamous cell carcinomas of the skin are excluded from the registry. Information collected on each case includes the patient's name, address, birthdate, race, gender, and Social Security number; date of diagnosis; primary site of the cancer (coded according to the International Classification of Diseases for Oncology, 3rd edition [ICD-O-3]); stage of disease at diagnosis; facility where the initial diagnosis was made; basis of staging; method of diagnostic confirmation; and histological type (also classified according to the ICD-O-3). Follow-up information is gathered periodically on registered cases, and includes the date of last contact with the patient, status of disease, type of additional treatment, quality of survival; and, if death has occurred, the date and cause of death and the status of the cancer at the time of death. The registry gathers this information from every hospital in the state for all persons diagnosed with and/or treated for cancer. In addition, the registry includes Nebraska residents who are diagnosed with and/or treated for cancer out of state. NCR data also include cases diagnosed and/or treated at pathology laboratories, radiation therapy sites, physician's offices, and cases identified from death certificates.

Nebraska cancer mortality data are obtained from death certificates on file with the NHHSS. Mortality data are available for every Nebraska resident who dies from cancer, whether death occurs in or outside of Nebraska. The mortality data presented in this report are limited to those deaths where cancer is listed as the underlying (i.e., primary) cause of death. For deaths that

occurred during 1999-2002, causes of death are coded according to the Tenth Edition of the International Classification of Disease (ICD-10). For deaths that occurred prior to 1999, causes of death are coded according to the Ninth Edition of the International Classification of Disease (ICD-9).

U.S. cancer incidence and mortality statistics are taken from the most recent data posted on the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program web site. The SEER Program compiles incidence data from a select group of cancer registries located throughout the United States, and these data provide estimates of national cancer incidence. The mortality data are compiled by the National Center for Health Statistics and include all cancer deaths occurring in the United States, with cancer deaths defined as only those deaths for which cancer is listed as the underlying cause.

Confidentiality

All data obtained by the NCR from the medical records of individual patients are held in strict confidence by the NHHSS. As specified in state statute, researchers may obtain case-specific and/or patient-identifiable information from the registry by submitting a written application that describes how the data will be used for scientific study. In situations where contact with a patient or patient's family is proposed, the applicant must substantiate the need for any such contact and submit approval from an Institutional Review Board. In addition, before any individual's name can be given to a researcher, the registry will obtain permission from the individual that they are willing to be a research subject. Upon favorable review by the NHHSS, the applicant must also agree to maintain the confidentiality and security of the data

throughout the course of the study, to destroy or return the registry data at the end of the study and to present material to the registry prior to publication to assure that no identifiable information is released.

Aggregate data (i.e., statistical information) from the registry are considered open to the public and are available upon request. Details on how to obtain such data are provided inside the front cover of this report.

Quality Assurance

The NCR and reporting facilities spend a great deal of time and energy to ensure that the information they gather is both accurate and complete. In recent years, these efforts have met with great success. For eight consecutive years (1995-2002), the NCR has met all of the criteria necessary to earn the Gold Standard of data quality awarded by the North American Association of Central Cancer Registries (NAACCR). These criteria include:

- 1) Completeness of case ascertainment – The registry must find at least 95% of the total number of cases that are estimated to have occurred.
- 2) Completeness of information – The proportion of registry cases missing information on age at diagnosis, gender, and county of residence must be no more than 2%, and the proportion missing information on race must be no more than 3%.
- 3) Data accuracy – Error rates based on edit checks of selected data items must be no greater than 1%.
- 4) Timeliness – All data for a single calendar year must be submitted to the NAACCR for review no more than 23 months after the year has ended.

Gold standard certification also requires that all cases pass strict edits and that the proportion of registry cases found solely through a review of death certificates must be no more than 3%. Lastly, the proportion of duplicate cases in the registry must be no more than one per 1,000.

Since the NCR has achieved the highest quality standards, its data are now included in several national cancer incidence databases. These databases include information from other cancer registries in the United States and Canada that meet the same data quality standards as the NCR. Nebraska cancer data are included in the databases listed below, all of which are accessible via the Internet:

- 1) *Cancer in North America*
(<http://www.naaccr.org/index.asp>)
- 2) *United States Cancer Statistics*
(<http://www.cdc.gov/cancer/npcr/uscs/index.htm>)
- 3) *Cancer Facts & Figures 2004*
(http://www.cancer.org/docroot/STT/stt_0.asp)
- 4) *Cancer Control PLANET*
(<http://cancercontrolplanet.cancer.gov/>).

Definitions

Several technical terms are used in presenting the information in this report. The following definitions are provided here to assist the reader.

Incidence rate

An incidence rate is the number of new cases of a disease that occur within a specific population, divided by the size of the population. For example, if 10 residents of a county with 20,000 residents are diagnosed with colorectal cancer during a single year, then the incidence rate for that county for that year is .0005. Since cancer incidence rates are usually expressed per 100,000 population, this figure is then multiplied by 100,000 to yield a rate of 50 per 100,000 per year.

Mortality rate

A mortality rate is the number of deaths that occur within a specific population, divided by the size of the population. Only those persons whose death certificate lists cancer as the underlying (i.e., primary) cause of death are included in a cancer mortality rate. Like incidence rates, mortality rates are usually expressed as the number of deaths per 100,000 population.

Age-adjusted rate

Age-adjustment is a simple mathematical procedure that makes it possible to compare rates between populations that have different age distributions, and to compare rates within a single population over time. This edition of the NCR's annual report is the fourth in which all incidence and mortality rates were age-adjusted using the United States population in 2000 as the standard. Rates presented in pre-1999 editions of this report were age-adjusted using the U.S. population in 1970 as the standard. **For this reason, the rates presented in this report can not be compared to those presented in previous reports.**

Stage of Disease at Diagnosis

In situ

Cases diagnosed as in situ include malignant tumors that are confined to the cell group of origin, and have not penetrated the supporting structure of the organ on which they arose.

Invasive

Cases diagnosed as invasive include malignant tumors that, unlike in situ tumors, have at least penetrated the supporting structure of the organ where they originated, and may have spread further. Invasive tumors are subdivided into three categories:

Localized--A localized invasive tumor has not spread beyond the boundaries of the organ where it originated.

Regional--A regional invasive tumor has spread beyond the limits of the organ of origin, by direct extension to immediately adjacent organs or tissues and/or by spread to regional lymph nodes.

Distant--A distant invasive tumor has spread beyond its original (primary) site to distant parts of the body.

Data Analysis

Most of the incidence and mortality rates presented in this report were calculated for cancer diagnoses and deaths that occurred during 2002 and 1998-2002 combined. Incidence and mortality rates that are based on more than one year of data should be interpreted as an average annual rate. Rates for 2002 were calculated using the 2002 population estimates developed by the United States Bureau of the Census, while the 1998-2002 rates were calculated using the 2000 population counts taken by the Census Bureau. The rates in Tables 3 and 7, which are based on data for the years 1990-2002, were calculated using an average of the 1990 and 2000 Census counts for Nebraska's white, African-American, Native American, Asian/Pacific Islander, and Hispanic populations.

All of the data presented in this report are current through January 1, 2005. However, because some cases diagnosed during or even before 2002 may not yet have been reported to the registry, the incidence data presented in this report should be considered subject to change. **In addition, the incidence data reported in previous editions of this publication should no longer be considered complete.**

With the exception of bladder cancer, all of the site-specific incidence rates in this report were calculated with invasive cases alone to maintain comparability with statistics from the SEER Program and other cancer registries throughout the United States. For bladder cancer, incidence rates were calculated with invasive and in situ cases combined. All incidence and mortality rates in this report were calculated per 100,000 population, and were age-adjusted according to the age distribution of the population of the United States in 2000. Statewide rates were also calculated for males and females separately, and for both sexes combined. Rates based on five or fewer events are not presented due to their unreliability. Also, the number of cases for any county with five or

fewer cases in a single year is not shown in order to reduce the possibility of identifying a specific person.

The transition from the ICD-O-2 to the ICD-O-3 (the coding systems used to classify cancer cases), which began for cases diagnosed on or after January 1, 2001, has also created some differences in the way that invasive cases are now defined. Certain types of cancer that were classified as non-invasive according to the ICD-O-2 are now classified as invasive by the ICD-O-3 (and vice versa), and some new codes have been added. The net effect has been an increase in the total number of invasive cases, confined mostly to an increase in the number of blood-borne cancers but with some reduction in the number of cancers of the ovary. In this report all 2001 and 2002 cancer cases are classified using the ICD-O-3 system. For cases diagnosed prior to 2001, their ICD-O-2 classification remains in effect, with the exception of ovarian cancers, which have been reclassified according to the ICD-O-3. For other cancers, the registry considers the available data insufficient to satisfactorily reclassify pre-2001 cases using the ICD-O-3 system.

In Tables 2, 6, and 9-17, differences between state and county rates were evaluated for statistical significance. Confidence intervals for each rate were calculated using the formula $CI = r \pm (RC \times SE)$, where CI = confidence interval, r = rate, RC = reliability coefficient, and SE = standard error. The standard error for each rate was determined by dividing the rate by the square root of the number of events (cancer diagnoses or deaths). The level of statistical significance used to compare rates (and determine reliability coefficients) was determined for each table using the Bonferroni method. This method divides the overall desired level of statistical significance (set at 5%) by the number of statistical comparisons being made. The number of comparisons varied by table since

county rates based on five or fewer cases were excluded. As a result, reliability coefficients also varied by table. A statistically significant difference exists and is indicated in those instances where the confidence intervals of a county rate and the state rate do not intersect.

This edition of "Cancer Incidence and Mortality in Nebraska" includes two new tables that have not appeared in any previous report. These tables (#18 and 19) present cancer incidence and mortality statistics by place of residence for each of Nebraska's local public health departments. The map on page 71 shows the area covered by each department. Differences between state and local incidence and mortality rates were evaluated for statistical significance according to the method described in the previous paragraph.

CANCER INCIDENCE IN NEBRASKA

The Nebraska Cancer Registry recorded 8,273 diagnoses of invasive cancer among Nebraska residents in 2002. This number includes 174 in situ bladder cancers, which as explained on page 5, are counted as invasive cases. The 2002 figure is a slight decrease from 2001, when 8,300 diagnoses (8,109 invasive, 191 in situ bladder) were reported. The 2002 data translate into an annual incidence rate of 460.4 cases per 100,000 population, compared to the 2001 rate of 464.8. By site of origin (i.e., primary site), cancers of the lung, breast, prostate, colon and rectum occurred the most frequently, accounting for more than half (55.2%) of the state's invasive diagnoses in 2002.

Table 1 presents the number and rate of invasive cases diagnosed among Nebraska residents during 2002 and 1998-2002, for all

sites combined and for cancers of specific sites. National incidence rate estimates for the year 2001 are also presented. Comparison of state and national rates shows that, for all sites combined and for most individual sites, the incidence of cancer in Nebraska is the same as or lower than that experienced by Americans as a whole. Table 2 presents the number of invasive cancers diagnosed and the incidence rates for 2002 and 1998-2002 by county of residence, with comparable statewide and national rates included. Table 3 presents Nebraska incidence data by race and ethnicity for the years 1990-2002. Table 4 presents the number of invasive cancer cases diagnosed in Nebraska during 1998-2002 by age at diagnosis. The graph below presents the annual incidence rates for cancer (all sites) for Nebraska and the United States since 1990.

**Cancer (All Sites)
Incidence Rates, By Year
Nebraska and the United States (1990-2002)**

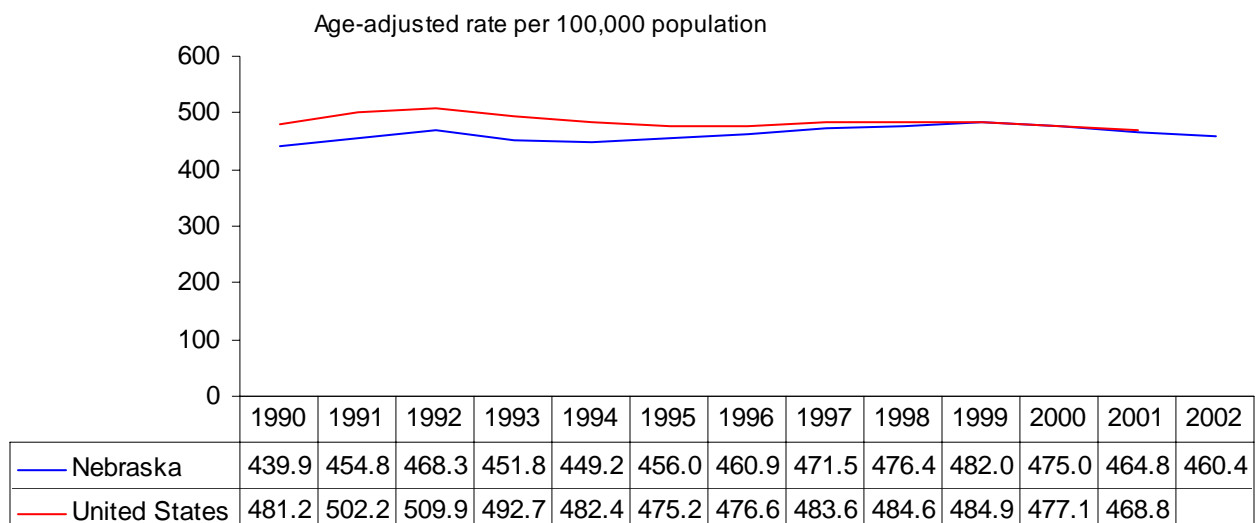


TABLE 1: Cancer Incidence (Invasive Cases Only)
Number of Cases and Rates, By Site and Gender
Nebraska (2002 and 1998-2002) and US (2001)

| SITE | NEBRASKA 2002 | | | | | | NEBRASKA 1998-2002 | | | | | | US 2001 | | |
|-------------------------------------|------------------|-------|---------------|-------|--------------|-------|-----------------------|-------|---------------|-------|--------------|-------|--------------|----------------|---------------|
| | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE RATE | FEMALE RATE | TOTAL RATE |
| All Sites | 4,179 | 527.3 | 4,094 | 416.3 | 8,273 | 460.4 | 21,204 | 547.9 | 20,297 | 416.9 | 41,502 | 469.5 | 552.9 | 410.5 | 468.8 |
| Oral Cavity & Pharynx | 113 | 13.9 | 80 | 8.3 | 193 | 10.8 | 616 | 15.7 | 330 | 6.7 | 946 | 10.8 | 15.0 | 6.6 | 10.4 |
| Esophagus | 65 | 8.3 | 19 | 1.9 | 84 | 4.7 | 310 | 8.0 | 97 | 1.8 | 407 | 4.6 | 8.2 | 1.9 | 4.7 |
| Stomach | 58 | 7.4 | 37 | 3.6 | 95 | 5.2 | 322 | 8.4 | 191 | 3.6 | 513 | 5.7 | 10.9 | 5.0 | 7.5 |
| Colon & Rectum (Colorectal) | 513 | 65.2 | 495 | 47.2 | 1,008 | 55.1 | 2,667 | 69.8 | 2,628 | 50.2 | 5,295 | 58.6 | 60.6 | 44.8 | 51.8 |
| Liver & Intra- hepatic Bile Duct | 40 | 5.0 | 25 | 2.5 | 65 | 3.6 | 190 | 4.9 | 101 | 2.0 | 291 | 3.3 | 8.0 | 2.9 | 5.2 |
| Pancreas | 97 | 12.4 | 89 | 8.4 | 186 | 10.1 | 446 | 11.7 | 438 | 8.4 | 884 | 9.8 | 12.4 | 9.5 | 10.7 |
| Lung & Bronchus | 623 | 79.2 | 457 | 46.1 | 1,080 | 60.1 | 3,184 | 82.3 | 2,275 | 46.2 | 5,459 | 61.8 | 77.7 | 49.1 | 61.2 |
| Melanoma of the Skin | 152 | 18.9 | 128 | 14.4 | 280 | 16.1 | 680 | 17.2 | 575 | 12.9 | 1,255 | 14.5 | 23.1 | 15.6 | 18.7 |
| Breast | 12 | 1.6 | 1,294 | 134.2 | 1,306 | 73.0 | 48 | 1.3 | 6,354 | 133.9 | 6,402 | 73.0 | 1.3 | 134.8 | 73.4 |
| Uterine Cervix | -- | -- | 75 | 8.6 | -- | -- | -- | -- | 364 | 8.5 | -- | -- | -- | 7.9 | -- |

TABLE 1: Cancer Incidence (Invasive Cases Only)
(Continued)
Number of Cases and Rates, By Site and Gender
Nebraska (2002 and 1998-2002) and US (2001)

| SITE | NEBRASKA 2002 | | | | | | NEBRASKA 1998-2002 | | | | | | US 2001 | | |
|--|------------------|-------|---------------|------|--------------|------|-----------------------|-------|---------------|------|--------------|------|--------------|----------------|---------------|
| | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE RATE | FEMALE RATE | TOTAL RATE |
| Uterine Corpus & Unspecified (Endometrium) | -- | -- | 248 | 26.0 | -- | -- | -- | -- | 1,278 | 27.1 | -- | -- | -- | 24.7 | -- |
| Ovary | -- | -- | 111 | 11.6 | -- | -- | -- | -- | 714 | 15.2 | -- | -- | -- | 13.9 | -- |
| Prostate | 1,176 | 148.3 | -- | -- | -- | -- | 6,328 | 163.8 | -- | -- | -- | -- | 176.8 | -- | -- |
| Urinary Bladder | 276 | 35.6 | 96 | 9.3 | 372 | 20.3 | 1,431 | 37.7 | 458 | 8.7 | 1,889 | 21.0 | 37.1 | 9.4 | 21.0 |
| Brain & Other CNS | 71 | 8.6 | 44 | 4.5 | 115 | 6.5 | 350 | 8.6 | 256 | 5.4 | 606 | 7.0 | 7.7 | 5.2 | 6.4 |
| Kidney & Renal Pelvis | 159 | 19.8 | 91 | 9.2 | 250 | 14.0 | 694 | 17.8 | 458 | 9.4 | 1,152 | 13.1 | 16.7 | 8.3 | 12.0 |
| Non-Hodgkin Lymphoma | 200 | 25.0 | 161 | 15.8 | 361 | 20.1 | 886 | 22.7 | 850 | 17.0 | 1,736 | 19.6 | 23.1 | 15.6 | 19.0 |
| Multiple Myeloma | 41 | 5.3 | 37 | 3.6 | 78 | 4.3 | 244 | 6.4 | 211 | 4.2 | 455 | 5.1 | 6.5 | 4.4 | 5.3 |
| Leukemia | 110 | 13.8 | 106 | 10.6 | 216 | 11.9 | 606 | 15.6 | 533 | 10.5 | 1,140 | 12.7 | 15.7 | 9.5 | 12.2 |

Total rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

Gender-specific rates are expressed per 100,000 male or female population and are age-adjusted to the 2000 U.S. population.

TABLE 2: Cancer (All Sites) Incidence
Number of Cases and Rates, by County of Residence
Nebraska (2002 and 1998-2002) and US (2001 and 1997-2001)

| | <u>2001</u> | | <u>1997-2001</u> | |
|---------------|----------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Cases</u> | <u>Rate</u> |
| US | NA | 468.8 | NA | 479.7 |
| | <u>2002</u> | | <u>1998-2002</u> | |
| NEBRASKA | 8,273 | 460.4 | 41,502 | 469.5 |
| <u>COUNTY</u> | | | | |
| ADAMS | 163 | 454.2 | 766 | 430.3 |
| ANTELOPE | 47 | 469.6 | 214 | 418.0 |
| ARTHUR | * | * | 12 | 468.2 |
| BANNER | * | * | 13 | 284.2 |
| BLAINE | * | * | 12 | 317.4 |
| BOONE | 30 | 341.9 | 204 | 478.6 |
| BOX BUTTE | 68 | 506.2 | 330 | 498.1 |
| BOYD | 28 | 754.9 | 93 | 473.5 |
| BROWN | 24 | 447.2 | 115 | 422.5 |
| BUFFALO | 182 | 464.5 | 890 | 470.7 |
| BURT | 48 | 424.3 | 268 | 469.5 |
| BUTLER | 58 | 516.5 | 268 | 482.1 |
| CASS | 94 | 368.8 | 538 | 435.8 |
| CEDAR | 67 | 506.7 | 294 | 459.1 |
| CHASE | 22 | 375.5 | 122 | 408.7 |
| CHERRY | 23 | 291.5 | 148 | 388.0 |
| CHEYENNE | 55 | 481.6 | 279 | 475.7 |
| CLAY | 41 | 447.3 | 213 | 478.3 |
| COLFAX | 48 | 382.5 | 276 | 471.0 |
| CUMING | 64 | 449.8 | 265 | ▼ 359.5 |
| CUSTER | 84 | 487.6 | 389 | 459.8 |
| DAKOTA | 79 | 443.1 | 411 | 481.0 |
| DAWES | 36 | 378.4 | 202 | 422.0 |
| DAWSON | 123 | 482.2 | 546 | 429.2 |
| DEUEL | 14 | 457.2 | 70 | 438.7 |
| DIXON | 39 | 541.8 | 173 | 438.0 |
| DODGE | 237 | 543.3 | 1101 | 501.3 |
| DOUGLAS | 1,997 | 465.9 | 10,210 | 488.5 |
| DUNDY | 12 | 342.1 | 67 | 369.8 |
| FILLMORE | 36 | 378.1 | 208 | 441.2 |
| FRANKLIN | 20 | 396.7 | 138 | 510.0 |
| FRONTIER | 20 | 506.1 | 80 | 419.1 |
| FURNAS | 28 | 379.5 | 182 | 452.6 |
| GAGE | 127 | 423.9 | 668 | 436.1 |
| GARDEN | 15 | 379.6 | 97 | 549.0 |
| GARFIELD | 11 | 331.4 | 80 | 527.0 |
| GOSPER | 10 | 310.1 | 69 | 437.5 |
| GRANT | * | * | 16 | 385.3 |
| GREELEY | 18 | 397.5 | 100 | 470.7 |
| HALL | 275 | 477.7 | 1,380 | 489.3 |
| HAMILTON | 48 | 431.8 | 246 | 459.0 |
| HARLAN | 30 | 539.3 | 114 | 406.1 |
| HAYES | -- | -- | 15 | ▼ 198.1 |
| HITCHCOCK | 20 | 394.4 | 102 | 438.5 |
| HOLT | 68 | 434.3 | 380 | 482.8 |
| HOOKER | 7 | 551.5 | 34 | 494.0 |
| HOWARD | 42 | 510.0 | 182 | 451.5 |

**TABLE 2: Cancer (All Sites) Incidence
(Continued)
Number of Cases and Rates, by County of Residence
Nebraska (2002 and 1998-2002) and US (2001 and 1997-2001)**

| <u>COUNTY</u> | <u>2002</u> | | <u>1998-2002</u> | |
|---------------|----------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Cases</u> | <u>Rate</u> |
| JEFFERSON | 49 | 398.9 | 245 | 392.4 |
| JOHNSON | 36 | 567.3 | 159 | 458.5 |
| KEARNEY | 28 | 340.2 | 151 | ▼ 356.5 |
| KEITH | 60 | 495.2 | 272 | 459.0 |
| KEYA PAHA | * | * | 18 | 253.3 |
| KIMBALL | 22 | 373.5 | 148 | 487.0 |
| KNOX | 64 | 459.7 | 333 | 463.2 |
| LANCASTER | 1,052 | 466.9 | 5,215 | 483.0 |
| LINCOLN | 175 | 440.8 | 933 | 477.3 |
| LOGAN | * | * | 17 | 350.4 |
| LOUP | * | * | 12 | 262.3 |
| McPHERSON | * | * | 18 | 501.6 |
| MADISON | 167 | 442.5 | 963 | 516.2 |
| MERRICK | 47 | 442.6 | 243 | 470.9 |
| MORRILL | 36 | 529.6 | 162 | 475.8 |
| NANCE | 15 | 287.0 | 138 | 499.6 |
| NEMAHA | 30 | 303.4 | 214 | 445.1 |
| NUCKOLLS | 42 | 556.2 | 199 | 469.9 |
| OTOE | 110 | 546.9 | 471 | 479.1 |
| PAWNEE | 18 | 326.8 | 124 | 430.8 |
| PERKINS | 28 | 703.9 | 93 | 455.1 |
| PHELPS | 57 | 473.0 | 262 | 424.3 |
| PIERCE | 33 | 333.3 | 202 | 412.9 |
| PLATTE | 132 | 406.5 | 790 | 480.0 |
| POLK | 33 | 403.2 | 150 | 376.5 |
| RED WILLOW | 63 | 399.0 | 352 | 466.1 |
| RICHARDSON | 80 | 631.5 | 347 | 512.4 |
| ROCK | 11 | 426.7 | 51 | 386.9 |
| SALINE | 81 | 526.3 | 395 | 486.7 |
| SARPY | 442 | 483.3 | 2,109 | 501.9 |
| SAUNDERS | 98 | 424.2 | 476 | 419.2 |
| SCOTTS BLUFF | 241 | 524.4 | 1,038 | 458.5 |
| SEWARD | 89 | 467.1 | 429 | 467.0 |
| SHERIDAN | 55 | 638.8 | 210 | 466.0 |
| SHERMAN | 38 | 807.1 | 121 | 494.6 |
| SIOUX | -- | -- | 12 | ▼ 136.3 |
| STANTON | 17 | 246.5 | 117 | ▼ 346.7 |
| THAYER | 34 | 382.5 | 216 | 449.5 |
| THOMAS | * | * | 19 | 358.9 |
| THURSTON | 36 | 521.5 | 149 | 441.3 |
| VALLEY | 19 | 260.4 | 126 | ▼ 345.5 |
| WASHINGTON | 88 | 440.7 | 438 | 451.9 |
| WAYNE | 43 | 451.6 | 202 | 412.1 |
| WEBSTER | 31 | 484.1 | 153 | 459.3 |
| WHEELER | 6 | 561.2 | 31 | 564.0 |
| YORK | 72 | 402.0 | 391 | 435.8 |

NA = not available

*Number in a given year and rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

TABLE 3: Cancer Incidence (Invasive Cases Only)
Number of Cases and Rates, All Sites and Top Ten Sites, By Race and Ethnicity
Nebraska (1990-2002)

| Rank | White | | | African-American | | | Native American | | | Asian/Pacific Islander | | | Hispanic | | |
|------|--|--------|-------|-----------------------------|--------|-------|--------------------------------|--------|-------|--------------------------------|--------|-------|--|--------|-------|
| | Site | Number | Rate | Site | Number | Rate | Site | Number | Rate | Site | Number | Rate | Site | Number | Rate |
| | All | 97,970 | 458.7 | All | 2,539 | 510.7 | All | 314 | 326.5 | All | 317 | 263.7 | All | 711 | 205.0 |
| 1 | Prostate | 15,918 | 171.0 | Lung & Bronchus | 457 | 93.8 | Lung & Bronchus | 40 | 43.4 | Breast | 37 | 33.1 | Colon & Rectum (Colorectal) | 90 | 31.4 |
| 2 | Breast | 14,756 | 71.0 | Prostate | 413 | 214.9 | Colon & Rectum (Colorectal) | 40 | 43.0 | Colon & Rectum (Colorectal) | 33 | 33.3 | Breast | 88 | 24.7 |
| 3 | Lung & Bronchus | 13,057 | 60.8 | Breast | 368 | 70.2 | Prostate | 39 | 109.3 | Lung & Bronchus | 32 | 32.3 | Prostate | 69 | 53.7 |
| 4 | Colon & Rectum (Colorectal) | 12,838 | 58.6 | Colon & Rectum (Colorectal) | 279 | 60.1 | Breast | 34 | 31.4 | Uterine Cervix | 27 | 28.1 | Lung & Bronchus | 66 | 21.9 |
| 5 | Urinary Bladder | 4,510 | 20.6 | Non-Hodgkin Lymphoma | 94 | 18.4 | Kidney & Renal Pelvis | 23 | 22.6 | Prostate | 21 | 63.8 | Leukemia | 43 | 7.0 |
| 6 | Non-Hodgkin Lymphoma | 3,967 | 18.6 | Kidney & Renal Pelvis | 76 | 14.2 | Oral Cavity & Pharynx | 13 | 13.3 | Liver & Intrahepatic Bile Duct | 19 | 17.9 | Non-Hodgkin Lymphoma | 38 | 10.5 |
| 7 | Uterine Corpus & Unspecified (Endometrium) | 3,058 | 26.7 | Pancreas | 67 | 15.2 | Liver & Intrahepatic Bile Duct | 9 | 9.1 | Non-Hodgkin Lymphoma | 16 | 11.3 | Uterine Cervix | 31 | 11.9 |
| 8 | Leukemia | 2,649 | 12.3 | Oral Cavity & Pharynx | 57 | 10.5 | Ovary | 8 | 15.4 | Thyroid | 15 | 8.4 | Uterine Corpus & Unspecified (Endometrium) | 25 | 13.6 |
| 9 | Kidney & Renal Pelvis | 2,544 | 12.1 | Stomach | 56 | 11.9 | Uterine Cervix | 8 | 12.1 | Leukemia | 13 | 5.1 | Kidney & Renal Pelvis | 24 | 7.5 |
| 10 | Melanoma of the Skin | 2,432 | 12.0 | Multiple Myeloma | 54 | 11.8 | Non-Hodgkin Lymphoma | 8 | 9.5 | Pancreas | 11 | 9.7 | Urinary Bladder | 22 | 7.1 |
| | | | | | | | Stomach | 8 | 9.3 | Oral Cavity & Pharynx | 11 | 5.7 | | | |

Excluding gender-specific sites, all rates are expressed per 100,000 population, and are age-adjusted to the 2000 U.S. population.

Rates for gender-specific sites (prostate, cervix, endometrium, ovary) are expressed per 100,000 male or female population, and are age-adjusted to the 2000 U.S. population.

TABLE 4: Cancer Incidence (Invasive Cases Only)
Number of Cases and Percentage Distribution, By Site and Age at Diagnosis,
Nebraska (1998-2002)

| | 0-17 Yrs. | | 18-44 Yrs. | | 45-64 Yrs. | | 65 Yrs and Older | | TOTAL | |
|--|-----------|------|------------|------|------------|------|------------------|------|--------|-------|
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| All Sites | 313 | 0.8 | 3,190 | 7.7 | 12,105 | 29.2 | 25,894 | 62.4 | 41,502 | 100.0 |
| Oral Cavity & Pharynx | 7 | 0.7 | 80 | 8.5 | 359 | 37.9 | 500 | 52.9 | 946 | 100.0 |
| Esophagus | 0 | 0.0 | 10 | 2.5 | 119 | 29.2 | 278 | 68.3 | 407 | 100.0 |
| Stomach | 0 | 0.0 | 24 | 4.7 | 113 | 22.0 | 376 | 73.3 | 513 | 100.0 |
| Colon & Rectum (Colorectal) | 0 | 0.0 | 178 | 3.4 | 1,237 | 23.4 | 3,880 | 73.3 | 5,295 | 100.0 |
| Liver & Intrahepatic Bile Duct | 4 | 1.4 | 14 | 4.8 | 88 | 30.2 | 185 | 63.6 | 291 | 100.0 |
| Pancreas | 0 | 0.0 | 29 | 3.3 | 196 | 22.2 | 659 | 74.5 | 884 | 100.0 |
| Lung & Bronchus | 0 | 0.0 | 128 | 2.3 | 1,467 | 26.9 | 3,864 | 70.8 | 5,459 | 100.0 |
| Melanoma of the Skin | 10 | 0.8 | 343 | 27.3 | 416 | 33.1 | 486 | 38.7 | 1,255 | 100.0 |
| Breast | 0 | 0.0 | 598 | 9.3 | 2,422 | 37.8 | 3,382 | 52.8 | 6,402 | 100.0 |
| Uterine Cervix | 0 | 0.0 | 168 | 46.2 | 127 | 34.9 | 69 | 19.0 | 364 | 100.0 |
| Uterine Corpus & Unspecified (Endometrium) | 0 | 0.0 | 91 | 7.1 | 495 | 38.7 | 692 | 54.1 | 1,278 | 100.0 |
| Ovary | 5 | 0.7 | 110 | 15.4 | 233 | 32.6 | 366 | 51.3 | 714 | 100.0 |
| Prostate | 1 | <0.1 | 23 | 0.4 | 1,839 | 29.1 | 4,465 | 70.6 | 6,328 | 100.0 |
| Urinary Bladder | 1 | <0.1 | 56 | 3.0 | 411 | 21.8 | 1,421 | 75.2 | 1,889 | 100.0 |
| Brain & Other CNS | 69 | 11.4 | 123 | 20.3 | 167 | 27.6 | 247 | 40.8 | 606 | 100.0 |
| Kidney & Renal Pelvis | 15 | 1.3 | 83 | 7.2 | 385 | 33.4 | 669 | 58.1 | 1,152 | 100.0 |
| Non-Hodgkin Lymphoma | 15 | 0.9 | 174 | 10.0 | 464 | 26.7 | 1,083 | 62.4 | 1,736 | 100.0 |
| Multiple Myeloma | 0 | 0.0 | 12 | 2.6 | 114 | 25.1 | 329 | 72.3 | 455 | 100.0 |
| Leukemia | 78 | 6.8 | 93 | 8.2 | 246 | 21.6 | 723 | 63.4 | 1,140 | 100.0 |

NOTE: Due to rounding, some percentages may not sum to 100.0

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CANCER MORTALITY IN NEBRASKA

In 2002, 3,429 Nebraska residents died from cancer, a number that translates into a rate of 185.8 cancer deaths per 100,000 population. These figures represent a slight increase from the state's 2001 figures of 3,389 (cancer deaths) and 185.0 (cancer mortality rate). Cancer was the second leading cause of mortality in Nebraska in 2002, exceeded only by heart disease, and accounted for more than one of every five (21.8%) deaths. By body site, cancers of the lung, breast, prostate, colon and rectum were the most frequently mentioned, accounting for 1,733 (50.5%) of Nebraska's cancer deaths in 2002.

Table 5 presents the number and rate of cancer deaths that occurred among Nebraska residents during 2002 and 1998-

2002, for all sites combined and for specific sites. U.S. cancer mortality rates for 2001 are also included. Comparison of state and national rates shows that, for most body sites and for all sites combined, cancer mortality is about the same as or lower in Nebraska than it is in the United States as a whole. Table 6 presents the number of cancer deaths and the mortality rates for 2002 and 1998-2002 by county of residence, with comparable statewide and national rates included. Table 7 presents Nebraska cancer mortality data by race and ethnicity for the years 1990-2002. Table 8 presents the number of Nebraska cancer deaths that occurred during 1998-2002 by age at death. The graph below shows the annual mortality rates for cancer for Nebraska and the United States since 1990.

**Cancer (All Sites)
Mortality Rates, By Year
Nebraska and the United States (1990-2002)**

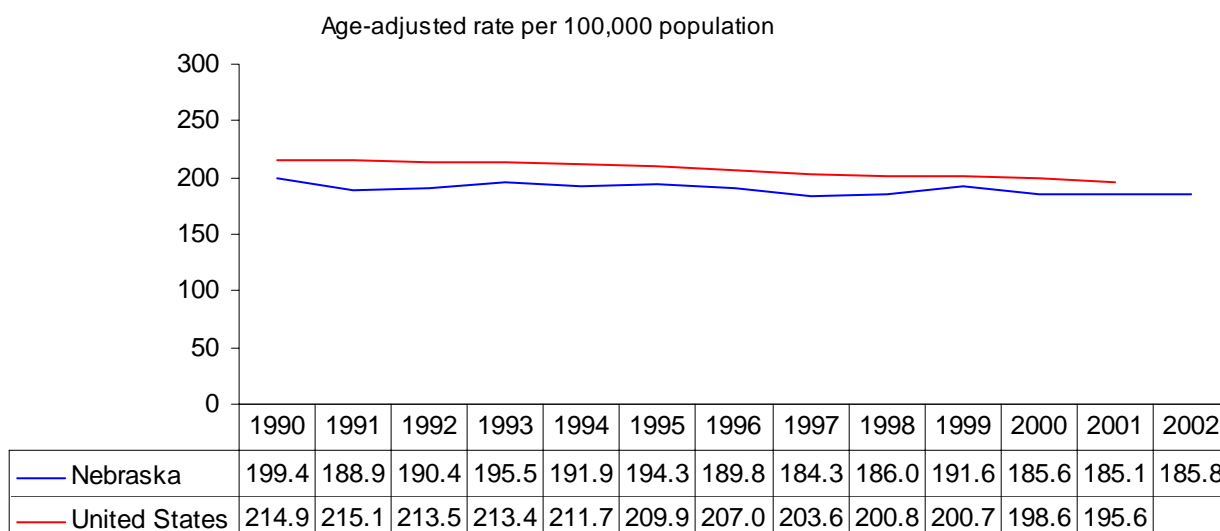


TABLE 5: Cancer Mortality
Number of Deaths and Rates, By Site and Gender
Nebraska (2002 and 1998-2002) and US (2001)

| SITE | NEBRASKA 2002 | | | | | | NEBRASKA 1998-2002 | | | | | | US 2001 | | |
|-------------------------------------|------------------|-------|---------------|-------|--------------|-------|-----------------------|-------|---------------|-------|--------------|-------|--------------|----------------|---------------|
| | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE RATE | FEMALE RATE | TOTAL RATE |
| All Sites | 1,746 | 225.2 | 1,683 | 158.8 | 3,429 | 185.8 | 8,667 | 229.3 | 8,218 | 157.2 | 16,885 | 186.0 | 243.5 | 164.1 | 195.6 |
| Oral Cavity & Pharynx | 23 | 2.8 | 13 | 1.2 | 36 | 2.0 | 110 | 2.9 | 70 | 1.3 | 180 | 2.0 | 4.1 | 1.6 | 2.7 |
| Esophagus | 60 | 7.6 | 21 | 2.1 | 81 | 4.5 | 294 | 7.7 | 85 | 1.6 | 379 | 4.2 | 7.8 | 1.8 | 4.4 |
| Stomach | 25 | 3.3 | 13 | 1.2 | 38 | 2.0 | 146 | 3.8 | 118 | 2.2 | 264 | 2.9 | 6.1 | 3.1 | 4.3 |
| Colon & Rectum (Colorectal) | 193 | 24.8 | 214 | 19.2 | 407 | 21.7 | 950 | 25.3 | 1,048 | 18.8 | 1,998 | 21.6 | 24.2 | 17.0 | 20.0 |
| Liver & Intra- hepatic Bile Duct | 41 | 5.2 | 24 | 2.1 | 65 | 3.5 | 160 | 4.1 | 114 | 2.2 | 274 | 3.1 | 6.9 | 3.0 | 4.7 |
| Pancreas | 81 | 10.6 | 95 | 8.7 | 176 | 9.4 | 440 | 11.6 | 460 | 8.5 | 900 | 9.9 | 12.1 | 9.3 | 10.5 |
| Lung & Bronchus | 523 | 66.8 | 365 | 35.8 | 888 | 49.1 | 2,686 | 70.1 | 1,786 | 35.6 | 4,472 | 50.2 | 75.1 | 40.9 | 55.2 |
| Melanoma of the Skin | 39 | 4.9 | 15 | 1.7 | 54 | 3.1 | 172 | 4.4 | 77 | 1.6 | 249 | 2.8 | 3.9 | 1.7 | 2.7 |
| Breast | 4 | 0.5 | 251 | 24.2 | 255 | 13.8 | 14 | 0.4 | 1,236 | 24.2 | 1,250 | 13.8 | 0.3 | 25.9 | 14.7 |
| Uterine Cervix | -- | -- | 25 | 2.8 | -- | -- | -- | -- | 115 | 2.5 | -- | -- | -- | 2.7 | -- |

**TABLE 5: Cancer Mortality
(Continued)
Number of Deaths and Rates, By Site and Gender
Nebraska (2002 and 1998-2002) and US (2001)**

| SITE | NEBRASKA 2002 | | | | | | NEBRASKA 1998-2002 | | | | | | US 2001 | | |
|--|------------------|------|---------------|------|--------------|------|-----------------------|------|---------------|------|--------------|------|--------------|----------------|---------------|
| | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE NO. | RATE | FEMALE NO. | RATE | TOTAL NO. | RATE | MALE RATE | FEMALE RATE | TOTAL RATE |
| Uterine Corpus & Unspecified (Endometrium) | -- | -- | 42 | 4.2 | -- | -- | -- | -- | 226 | 4.3 | -- | -- | -- | 4.2 | -- |
| Ovary | -- | -- | 90 | 8.9 | -- | -- | -- | -- | 435 | 8.6 | -- | -- | -- | 9.0 | -- |
| Prostate | 183 | 24.8 | -- | -- | -- | -- | 974 | 27.3 | -- | -- | -- | -- | 29.1 | -- | -- |
| Urinary Bladder | 52 | 6.8 | 23 | 1.8 | 75 | 3.9 | 246 | 6.7 | 109 | 1.8 | 355 | 3.8 | 7.5 | 2.2 | 4.3 |
| Brain & Other CNS | 48 | 6.0 | 41 | 4.1 | 89 | 5.0 | 238 | 6.0 | 218 | 4.5 | 456 | 5.2 | 5.5 | 3.6 | 4.4 |
| Kidney & Renal Pelvis | 55 | 7.0 | 47 | 4.3 | 102 | 5.5 | 258 | 6.7 | 160 | 3.0 | 418 | 4.6 | 6.2 | 2.8 | 4.3 |
| Non-Hodgkin Lymphoma | 78 | 10.0 | 67 | 6.2 | 145 | 7.9 | 385 | 10.2 | 384 | 7.1 | 769 | 8.4 | 9.9 | 6.4 | 7.9 |
| Multiple Myeloma | 43 | 5.5 | 33 | 3.1 | 76 | 4.1 | 186 | 5.0 | 159 | 3.0 | 345 | 3.8 | 4.7 | 3.2 | 3.8 |
| Leukemia | 77 | 10.1 | 67 | 5.8 | 144 | 7.6 | 391 | 10.4 | 350 | 6.3 | 741 | 8.0 | 10.1 | 5.9 | 7.6 |

Total rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

Gender-specific rates are expressed per 100,000 male or female population and are age-adjusted to the 2000 U.S. population.

TABLE 6: Cancer (All Sites) Mortality
Number of Deaths and Rates, by County of Residence
Nebraska (2002 and 1998-2002) and US (2001 and 1997-2001)

| | <u>2001</u> | <u>Rate</u> | <u>1997-2001</u> | <u>Rate</u> |
|---------------|-----------------|-------------|------------------|-------------|
| | <u># Deaths</u> | | <u># Deaths</u> | |
| US | NA | 195.6 | NA | 199.8 |
| | <u>2002</u> | | <u>1998-2002</u> | |
| NEBRASKA | 3,429 | 185.8 | 16,885 | 186.0 |
| <u>COUNTY</u> | | | | |
| ADAMS | 72 | 190.6 | 327 | 174.4 |
| ANTELOPE | 20 | 189.7 | 102 | 184.6 |
| ARTHUR | * | * | 3 | ** |
| BANNER | -- | -- | 3 | ** |
| BLAINE | -- | -- | 5 | ** |
| BOONE | 25 | 271.2 | 84 | 170.4 |
| BOX BUTTE | 29 | 213.4 | 140 | 206.7 |
| BOYD | 8 | 178.9 | 36 | 171.0 |
| BROWN | 8 | 135.3 | 46 | 147.2 |
| BUFFALO | 70 | 172.5 | 341 | 176.6 |
| BURT | 34 | 278.7 | 130 | 207.1 |
| BUTLER | 23 | 195.9 | 120 | 208.5 |
| CASS | 34 | 136.2 | 206 | 168.6 |
| CEDAR | 29 | 191.9 | 103 | 147.2 |
| CHASE | 12 | 184.0 | 57 | 178.2 |
| CHERRY | 11 | 135.1 | 72 | 177.5 |
| CHEYENNE | 19 | 158.5 | 124 | 196.1 |
| CLAY | 21 | 232.8 | 92 | 199.5 |
| COLFAX | 24 | 169.3 | 109 | 169.0 |
| CUMING | 22 | 146.8 | 116 | 149.9 |
| CUSTER | 34 | 175.6 | 161 | 174.3 |
| DAKOTA | 31 | 175.8 | 180 | 215.8 |
| DAWES | 16 | 157.0 | 84 | 162.0 |
| DAWSON | 48 | 181.0 | 248 | 190.1 |
| DEUEL | 7 | 232.9 | 30 | 166.7 |
| DIXON | 15 | 174.2 | 78 | 179.1 |
| DODGE | 80 | 168.2 | 443 | 187.8 |
| DOUGLAS | 847 | 201.3 | 4,255 | ▲ 206.7 |
| DUNDY | * | * | 29 | 152.2 |
| FILLMORE | 17 | 153.8 | 98 | 189.3 |
| FRANKLIN | 14 | 249.6 | 67 | 217.0 |
| FRONTIER | 10 | 272.3 | 29 | 145.7 |
| FURNAS | 13 | 132.8 | 80 | 168.3 |
| GAGE | 57 | 167.6 | 299 | 180.0 |
| GARDEN | * | * | 36 | 175.9 |
| GARFIELD | 6 | 127.4 | 30 | 149.0 |
| GOSPER | 6 | 181.2 | 28 | 168.8 |
| GRANT | * | * | 2 | ** |
| GREELEY | 7 | 119.9 | 37 | 157.9 |
| HALL | 82 | 138.6 | 507 | 174.9 |
| HAMILTON | 24 | 207.7 | 115 | 203.4 |
| HARLAN | 10 | 171.5 | 52 | 166.8 |
| HAYES | * | * | 12 | 160.4 |
| HITCHCOCK | 10 | 192.9 | 50 | 203.5 |
| HOLT | 31 | 190.8 | 143 | 169.7 |
| HOOKER | * | * | 9 | 104.4 |
| HOWARD | 15 | 168.5 | 77 | 174.6 |

**TABLE 6: Cancer (All Sites) Mortality
(Continued)
Number of Deaths and Rates, by County of Residence
Nebraska (2002 and 1998-2002) and US (2001 and 1997-2001)**

| <u>COUNTY</u> | <u>2002</u> | | <u>1998-2002</u> | |
|---------------|-----------------|-------------|------------------|-------------|
| | <u># Deaths</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 24 | 188.7 | 118 | 172.0 |
| JOHNSON | 12 | 154.7 | 61 | 161.5 |
| KEARNEY | 12 | 137.2 | 79 | 182.4 |
| KEITH | 30 | 240.9 | 124 | 203.4 |
| KEYA PAHA | * | * | 14 | 174.6 |
| KIMBALL | 16 | 241.9 | 55 | 173.4 |
| KNOX | 34 | 221.1 | 137 | 172.5 |
| LANCASTER | 422 | 190.4 | 2,022 | 190.2 |
| LINCOLN | 78 | 188.8 | 396 | 195.6 |
| LOGAN | * | * | 12 | 242.3 |
| LOUP | * | * | 9 | 195.7 |
| McPHERSON | * | * | 6 | 156.4 |
| MADISON | 73 | 183.5 | 349 | 178.7 |
| MERRICK | 29 | 263.2 | 87 | 159.0 |
| MORRILL | 11 | 152.0 | 55 | 159.8 |
| NANCE | 6 | 106.0 | 53 | 186.8 |
| NEMAHA | 18 | 178.0 | 97 | 188.7 |
| NUCKOLLS | 24 | 249.0 | 106 | 227.6 |
| OTOE | 47 | 229.7 | 202 | 197.8 |
| PAWNEE | 12 | 176.2 | 50 | 148.7 |
| PERKINS | 7 | 159.4 | 41 | 192.3 |
| PHELPS | 21 | 143.0 | 111 | 164.6 |
| PIERCE | 17 | 175.9 | 85 | 170.6 |
| PLATTE | 61 | 186.7 | 302 | 177.6 |
| POLK | 16 | 171.2 | 70 | 159.0 |
| RED WILLOW | 20 | 131.8 | 153 | 191.3 |
| RICHARDSON | 41 | 303.1 | 169 | 231.9 |
| ROCK | * | * | 19 | 118.7 |
| SALINE | 28 | 154.6 | 148 | 167.9 |
| SARPY | 147 | 181.0 | 711 | 189.9 |
| SAUNDERS | 42 | 178.6 | 194 | 164.8 |
| SCOTTS BLUFF | 97 | 202.0 | 416 | 175.4 |
| SEWARD | 40 | 197.1 | 179 | 184.4 |
| SHERIDAN | 25 | 263.4 | 89 | 177.7 |
| SHERMAN | 10 | 175.5 | 39 | 140.3 |
| SIOUX | * | * | 9 | 99.6 |
| STANTON | 11 | 163.4 | 60 | 176.2 |
| THAYER | 11 | 96.1 | 92 | 162.9 |
| THOMAS | * | * | 8 | 137.5 |
| THURSTON | 19 | 270.8 | 66 | 190.4 |
| VALLEY | 9 | 95.1 | 48 | ▼ 113.6 |
| WASHINGTON | 36 | 176.5 | 188 | 190.8 |
| WAYNE | 16 | 144.6 | 62 | ▼ 116.8 |
| WEBSTER | 10 | 147.0 | 48 | 122.9 |
| WHEELER | * | * | 13 | 226.9 |
| YORK | 27 | 136.1 | 138 | 140.8 |

NA = not available

*Number in a given year and rate not shown if based on five or fewer events.

**Rate for combined years not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

▲ county rate significantly higher than the state rate

TABLE 7: Cancer Mortality
Number of Deaths and Rates, All Sites and Top Ten Sites, By Race and Ethnicity
Nebraska (1990-2002)

| Rank | White | | | African-American | | | Native American | | | Asian/Pacific Islander | | | Hispanic | | |
|------|-----------------------------|--------|-------|--------------------------------|--------|-------|--------------------------------|--------|-------|--------------------------------|--------|-------|--------------------------------|--------|-------|
| | Site | Number | Rate | Site | Number | Rate | Site | Number | Rate | Site | Number | Rate | Site | Number | Rate |
| | All | 41,531 | 189.1 | All | 1,241 | 265.8 | All | 175 | 207.5 | All | 119 | 122.4 | All | 343 | 117.6 |
| 1 | Lung & Bronchus | 10,842 | 50.0 | Lung & Bronchus | 375 | 78.5 | Lung & Bronchus | 49 | 58.2 | Lung & Bronchus | 25 | 27.8 | Lung & Bronchus | 63 | 22.7 |
| 2 | Colon & Rectum (Colorectal) | 5,072 | 22.7 | Colon & Rectum (Colorectal) | 124 | 27.9 | Colon & Rectum (Colorectal) | 16 | 19.4 | Pancreas | 14 | 14.0 | Colon & Rectum (Colorectal) | 41 | 15.0 |
| 3 | Breast | 3,383 | 15.7 | Breast | 111 | 22.4 | Breast | 10 | 10.8 | Liver & Intrahepatic Bile Duct | 11 | 8.3 | Liver & Intrahepatic Bile Duct | 22 | 7.9 |
| 4 | Prostate | 2,597 | 30.2 | Prostate | 81 | 56.1 | Non-Hodgkin Lymphoma | 9 | 9.5 | Colon & Rectum (Colorectal) | 9 | 8.0 | Stomach | 21 | 7.5 |
| 5 | Pancreas | 2,174 | 9.8 | Pancreas | 63 | 14.6 | Pancreas | 8 | 10.4 | Stomach | 7 | 5.9 | Breast | 21 | 5.6 |
| 6 | Non-Hodgkin Lymphoma | 1,883 | 8.5 | Stomach | 46 | 9.7 | Kidney & Renal Pelvis | 8 | 8.5 | Non-Hodgkin Lymphoma | 6 | 7.5 | Leukemia | 17 | 3.9 |
| 7 | Leukemia | 1,732 | 7.8 | Non-Hodgkin Lymphoma | 41 | 8.8 | Ovary | 6 | 12.7 | Breast | 6 | 5.6 | Pancreas | 15 | 5.8 |
| 8 | Brain & Other CNS | 1,127 | 5.4 | Leukemia | 40 | 8.3 | Liver & Intrahepatic Bile Duct | 5 | * | Multiple Myeloma | 5 | * | Non-Hodgkin Lymphoma | 15 | 5.7 |
| 9 | Ovary | 1,086 | 8.8 | Esophagus | 35 | 7.4 | Prostate | 5 | * | Brain & Other CNS | 4 | * | Uterine Cervix | 11 | 5.9 |
| 10 | Kidney & Renal Pelvis | 990 | 4.6 | Liver & Intrahepatic Bile Duct | 34 | 6.6 | Uterine Cervix | 5 | * | Leukemia | 3 | * | Kidney & Renal Pelvis | 10 | 2.8 |
| | | | | | | | Stomach | 5 | * | Uterine Cervix | 3 | * | | | |

Excluding gender-specific sites, all rates are expressed per 100,000 population, and are age-adjusted to the 2000 U.S. population.

Rates for gender-specific sites (prostate, cervix, endometrium, ovary) are expressed per 100,000 male or female population, and are age-adjusted to the 2000 U.S. population.

* Rate not shown if based on five or fewer deaths

TABLE 8: Cancer Mortality
Number of Deaths and Percentage Distribution, By Site and Age at Diagnosis,
Nebraska (1998-2002)

| | 0-17 Yrs. | | 18-44 Yrs. | | 45-64 Yrs. | | 65 Yrs and Older | | TOTAL | |
|---|-----------|-----|------------|------|------------|------|------------------|------|--------|-------|
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| All Sites | 49 | 0.3 | 581 | 3.4 | 3,583 | 21.2 | 12,672 | 75.0 | 16,885 | 100.0 |
| Oral Cavity & Pharynx | 0 | 0.0 | 8 | 4.4 | 46 | 25.6 | 126 | 70.0 | 180 | 100.0 |
| Esophagus | 0 | 0.0 | 6 | 1.6 | 97 | 25.6 | 276 | 72.8 | 379 | 100.0 |
| Stomach | 0 | 0.0 | 11 | 4.2 | 46 | 17.4 | 207 | 78.4 | 264 | 100.0 |
| Colon & Rectum (Colorectal) | 0 | 0.0 | 48 | 2.4 | 362 | 18.1 | 1,588 | 79.5 | 1,998 | 100.0 |
| Liver & Intrahepatic Bile Duct | 0 | 0.0 | 10 | 3.6 | 75 | 27.4 | 189 | 69.0 | 274 | 100.0 |
| Pancreas | 0 | 0.0 | 19 | 2.1 | 164 | 18.2 | 717 | 79.7 | 900 | 100.0 |
| Lung & Bronchus | 0 | 0.0 | 93 | 2.1 | 1,063 | 23.8 | 3,316 | 74.2 | 4,472 | 100.0 |
| Melanoma of the Skin | 0 | 0.0 | 29 | 11.6 | 78 | 31.3 | 142 | 57.0 | 249 | 100.0 |
| Breast | 0 | 0.0 | 79 | 6.3 | 352 | 28.2 | 819 | 65.5 | 1,250 | 100.0 |
| Uterine Cervix | 0 | 0.0 | 28 | 24.3 | 42 | 36.5 | 45 | 39.1 | 115 | 100.0 |
| Uterine Corpus & Unspecified (Endometrium) | 0 | 0.0 | 7 | 3.1 | 45 | 19.9 | 174 | 77.0 | 226 | 100.0 |
| Ovary | 0 | 0.0 | 13 | 3.0 | 113 | 26.0 | 309 | 71.0 | 435 | 100.0 |
| Prostate | 0 | 0.0 | 0 | 0.0 | 46 | 4.7 | 928 | 95.3 | 974 | 100.0 |
| Urinary Bladder | 0 | 0.0 | 6 | 1.7 | 51 | 14.4 | 298 | 83.9 | 355 | 100.0 |
| Brain & Other CNS | 18 | 3.9 | 43 | 9.4 | 141 | 30.9 | 254 | 55.7 | 456 | 100.0 |
| Kidney & Renal Pelvis | 3 | 0.7 | 11 | 2.6 | 101 | 24.2 | 303 | 72.5 | 418 | 100.0 |
| Non-Hodgkin Lymphoma | 2 | 0.3 | 23 | 3.0 | 138 | 17.9 | 606 | 78.8 | 769 | 100.0 |
| Multiple Myeloma | 0 | 0.0 | 4 | 1.2 | 61 | 17.7 | 280 | 81.2 | 345 | 100.0 |
| Leukemia | 10 | 1.3 | 40 | 5.4 | 108 | 14.6 | 583 | 78.7 | 741 | 100.0 |

NOTE: Due to rounding, percentages may not sum to 100.0

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INCIDENCE AND MORTALITY FOR SELECTED SITES

Lung and Bronchus

Although lung cancer was only the third most frequently diagnosed cancer among Nebraska residents in 2002, it was the year's leading cause of cancer mortality, accounting for more than 25% of the state's cancer deaths. Men are far more likely than women to get lung cancer and to die from it, both in Nebraska and throughout the United States, although trends since 1990 show that lung cancer incidence and mortality is declining for men but increasing for women. In recent years, lung cancer has averaged around 1,100 diagnoses and almost 900 deaths in Nebraska per year.

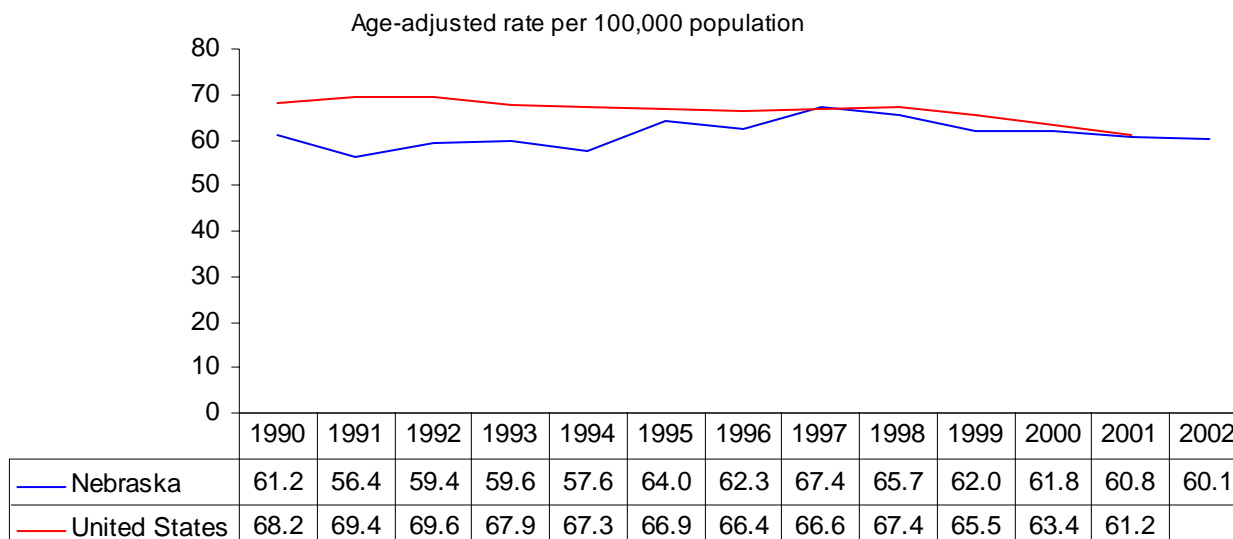
Cigarette smoking is the major cause of lung cancer and is estimated to cause 85% of lung cancer deaths. People who smoke two or more packs of cigarettes per day are 15 to 25 times more likely to die from lung cancer than non-smokers. Quitting smoking reduces the risk of dying from lung cancer,

although it takes 10-15 years for an ex-smoker's risk to drop to the level of a lifelong non-smoker.

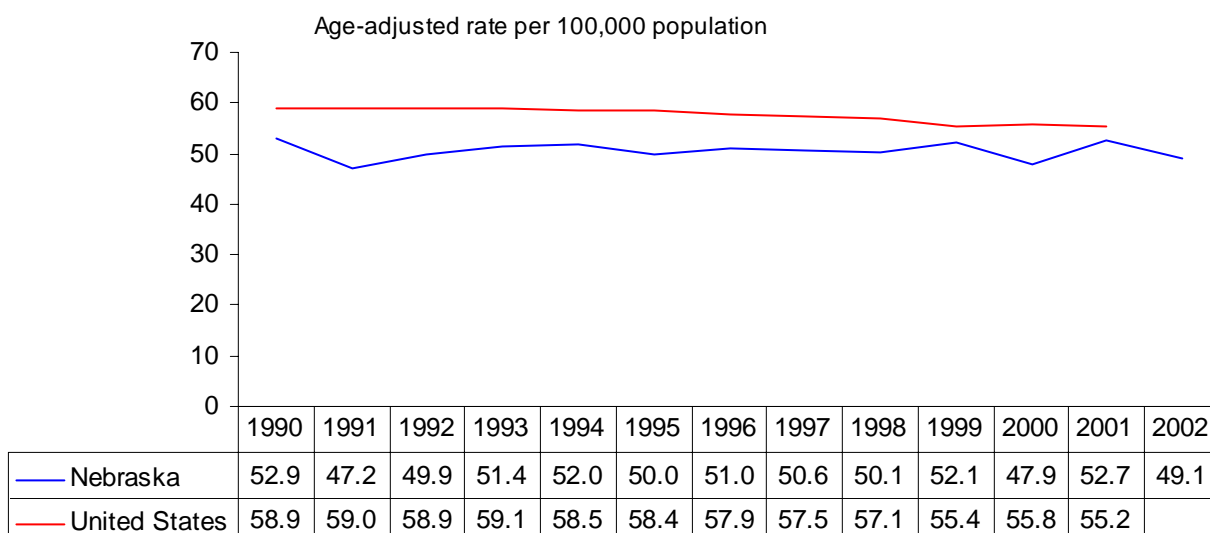
Despite its heavy toll in human lives, both lung cancer incidence and mortality remain lower in Nebraska than in the United States as a whole. In fact, Nebraska's lung cancer mortality rate has been consistently lower than the U.S. rate for several decades. This is undoubtedly attributable to Nebraska's traditionally low smoking prevalence rate. Data gathered in 2002 as part of Nebraska's Behavioral Risk Factor Surveillance System indicate that approximately one in five (20.3%) people 18 years of age and older currently smoke cigarettes.

Lung and bronchus cancer incidence and mortality statistics by county of residence are presented in Appendix I (Table 9).

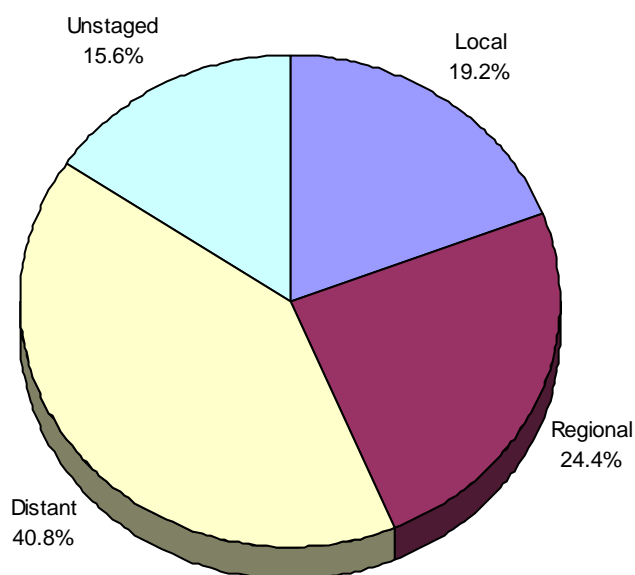
**Lung and Bronchus Cancer
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)



Lung and Bronchus Cancer Mortality Rates, By Year Nebraska and the United States (1990-2002)



Lung and Bronchus Cancer % of Cases, By Stage of Disease at Diagnosis Nebraska (1998-2002)



Breast (Female only)

Breast cancer is the most common malignancy diagnosed among women and the second most frequent cause of female cancer deaths. In Nebraska, more than 6,400 women were diagnosed with invasive breast cancer and over 1,200 women died from it between 1998 and 2002. Since 1990, the rate of breast cancer deaths has declined, both in Nebraska and nationally, while the rate of breast cancer diagnoses has increased. This trend is probably due to increased use of mammography and clinical breast examination (CBE) for breast cancer screening. As more women are screened, more tumors are found, but because they are more likely to be early-stage tumors, they are more treatable and less likely to be fatal.

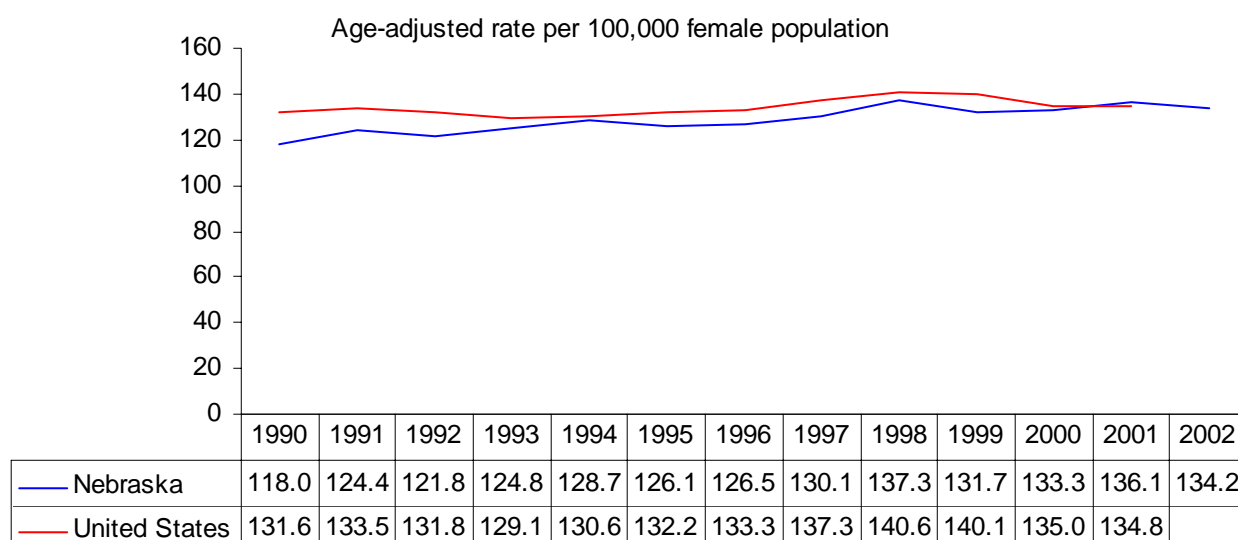
Age is one of the strongest risk factors for breast cancer. Less than 20% of the cases diagnosed in Nebraska during 1998-2002 involved a woman under 50, while more than half occurred among women 65 and older. Other risk factors include genetic mutations, a personal or family history of breast cancer, some forms of benign breast disease, early

menstruation, late menopause, never having children or having a first child after age 30, and for post-menopausal women, obesity.

To date, knowledge about the risk factors for breast cancer has not translated into practical ways to prevent it from occurring. Screening is the only proven method for saving lives that the disease might otherwise claim. The ACS recommends an annual mammogram beginning at age 40 and continuing as long as a woman is in good health. The ACS also recommends that CBE be part of a regular health exam, about every three years for women 20-39, and annually for women 40 and older. Women who have an increased risk of breast cancer should talk with their doctors about starting mammography screening earlier, having additional tests (e.g., breast ultrasound or magnetic resonance imaging [MRI]), or having more frequent exams.

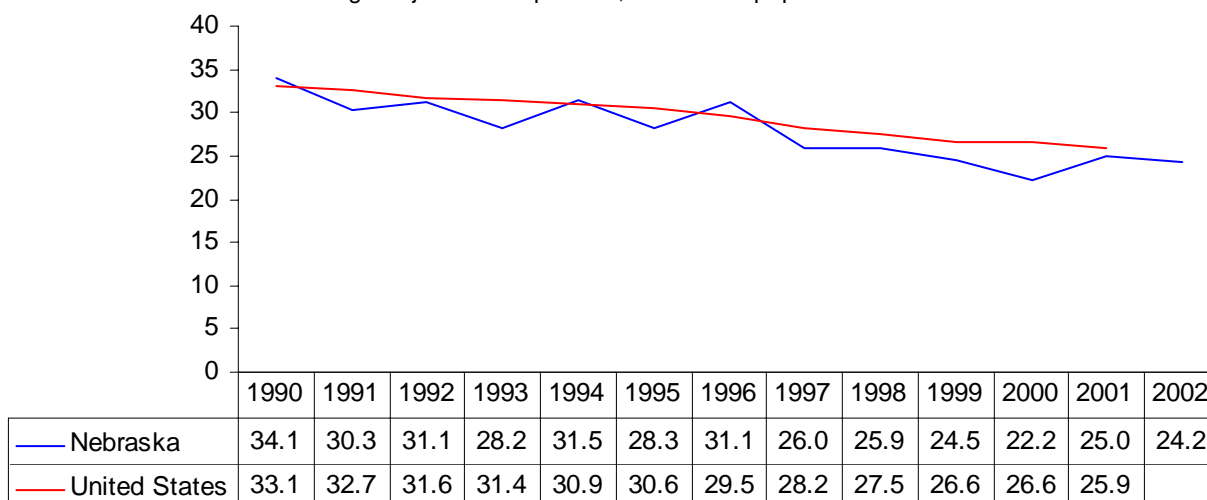
Female breast cancer incidence and mortality statistics by county of residence are presented in Appendix II (Table 10).

**Female Breast Cancer
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)

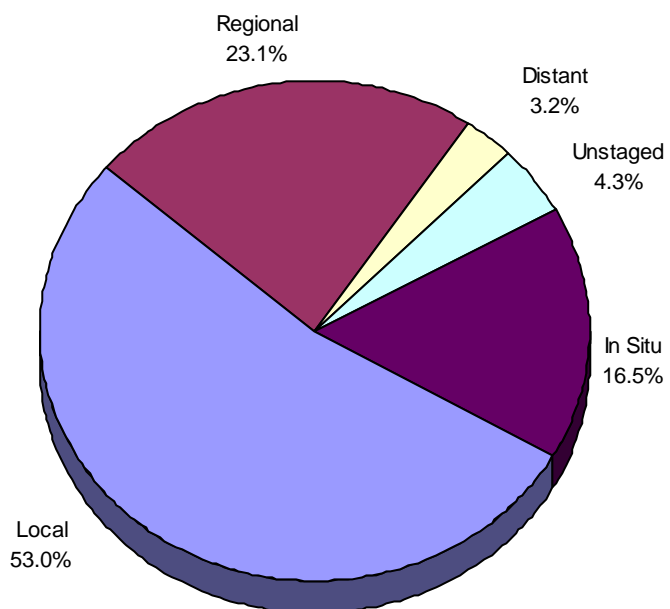


Female Breast Cancer Mortality Rates, By Year Nebraska and the United States (1990-2002)

Age-adjusted rate per 100,000 female population



Female Breast Cancer % of Cases, By Stage of Disease at Diagnosis Nebraska (1998-2002)



Colon and Rectum (Colorectal)

In 2002, colorectal cancer was the fourth most frequently diagnosed cancer among Nebraska residents, accounting for over 1,000 new cases. It was also the second leading cause of cancer mortality in the state, accounting for over 400 deaths.

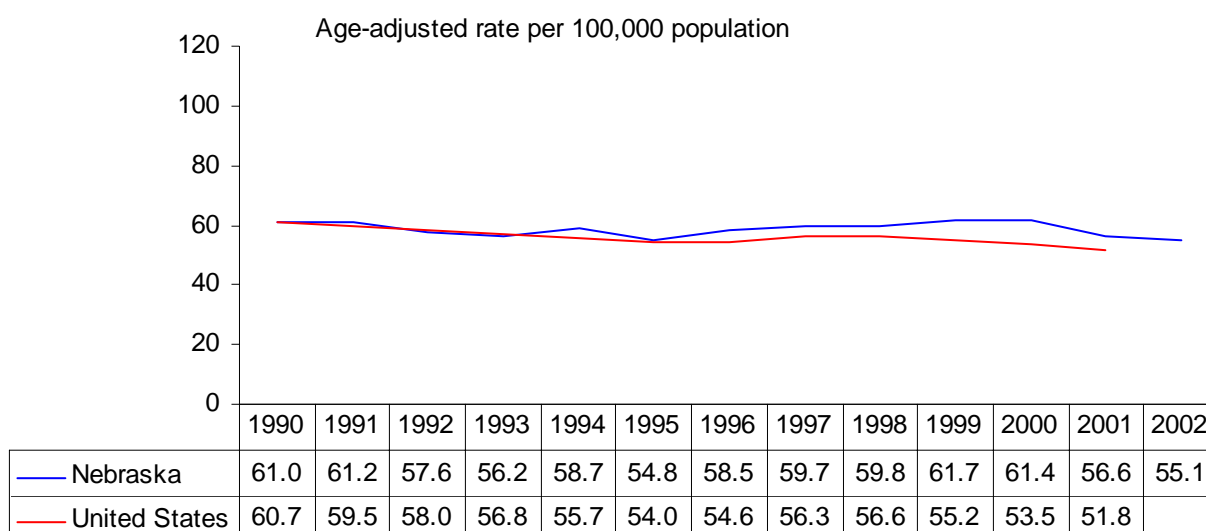
The risk of developing colorectal cancer increases with age. In Nebraska, over 70% of the colorectal cancer cases that occurred during 1998-2002 were 65 years of age or older at the time of diagnosis. Other risk factors include a personal or family history of colorectal cancer or polyps, a personal history of chronic inflammatory bowel disease, and certain hereditary colorectal cancer syndromes. Modifiable risk factors include physical inactivity, obesity, smoking, red meat consumption, and having more than one alcoholic drink per day.

At present, screening for asymptomatic polyps and tumors remains the best method for preventing colorectal cancer cases and

deaths. The ACS recommends that, for people of average risk, screening begin at age 50 and follow one of these schedules: 1) a fecal occult blood test (FOBT) or fecal immunochemical test (FIT) every year, 2) flexible sigmoidoscopy every five years, 3) an FOBT or FIT every year and flexible sigmoidoscopy every five years (both FOBT/FIT and sigmoidoscopy together are preferable to either option alone), 4) double-contrast barium enema every five years, or 5) colonoscopy every ten years. People at high risk (i.e., a personal or family history of colorectal cancer or polyps, a personal history of chronic inflammatory bowel disease, or a family history of hereditary colorectal cancer syndromes) should begin screening before age 50 and/or be screened more often.

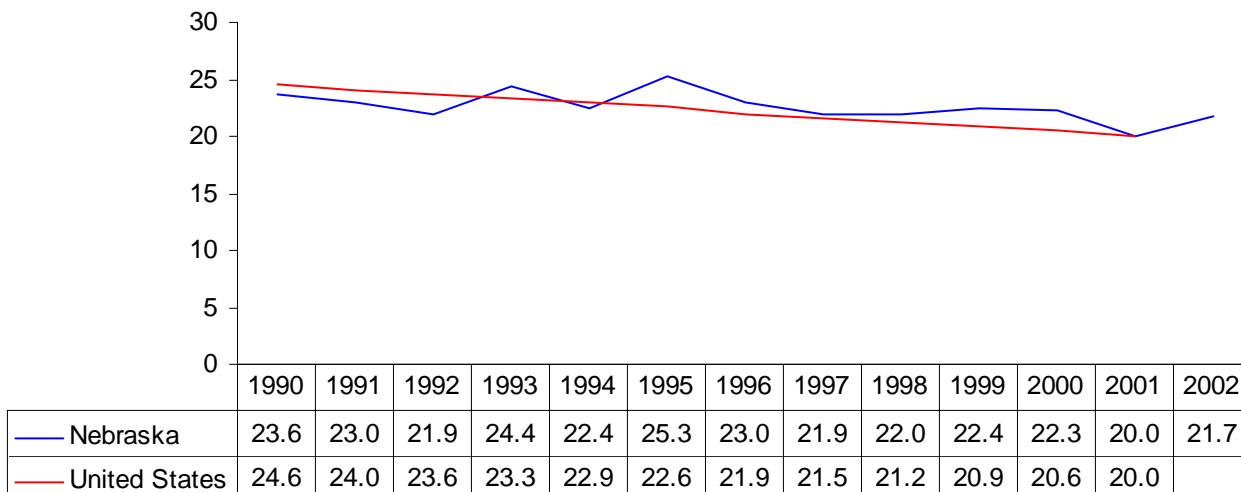
Colorectal cancer incidence and mortality statistics by county of residence are presented in Appendix III (Table 11).

**Colorectal Cancer
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)

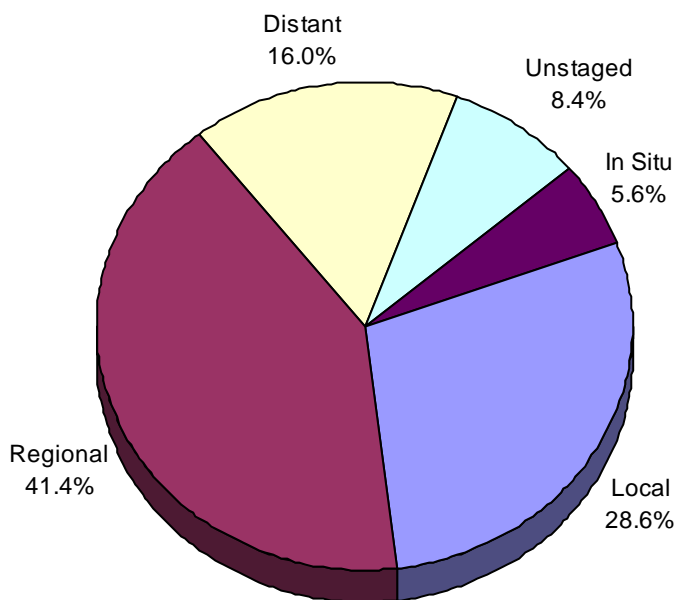


Colorectal Cancer Mortality Rates, By Year Nebraska and the United States (1990-2002)

Age-adjusted rate per 100,000 population



Colorectal Cancer % of Cases, By Stage of Disease at Diagnosis Nebraska (1998-2002)



Prostate

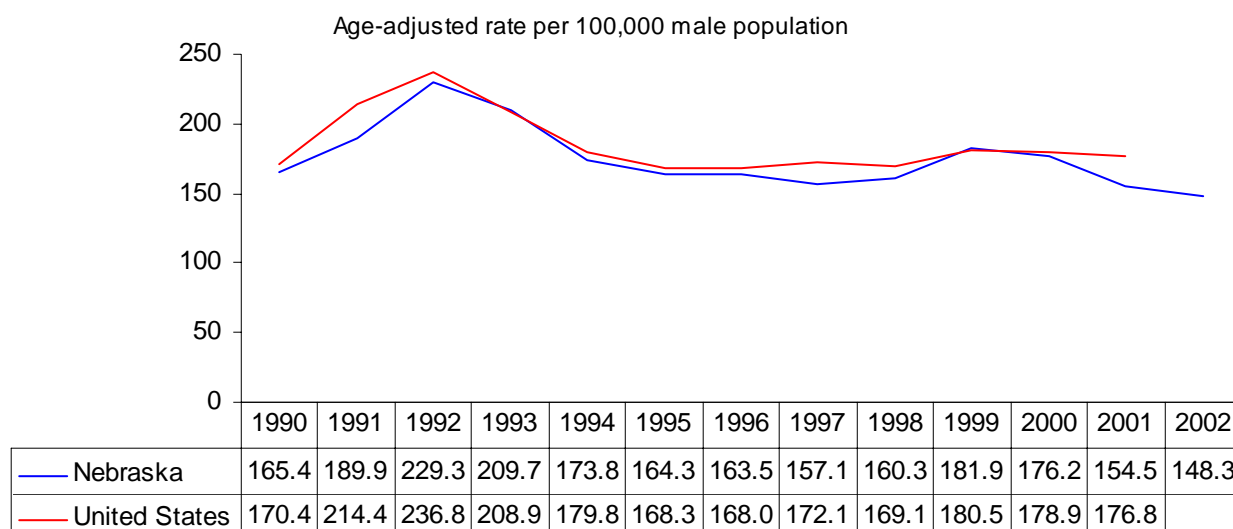
With over 1,100 diagnoses in 2002, prostate cancer was the most common cancer among Nebraska men, accounting for more than one of every four new cancer cases. Although survival rates are quite high (99% of all prostate cancer patients now live at least five years after diagnosis), it is also the third leading cause of male cancer deaths, and was responsible for almost 1,000 deaths in Nebraska between 1998 and 2002. Since the mid-1990s, prostate cancer death rates have declined, both in Nebraska and throughout the United States.

Little is known about the risk factors for prostate cancer. However, there are two well-known high-risk groups: the elderly (men 65 and older accounted for over 70% of Nebraska diagnoses during 1998-2002) and African-Americans. There also is some evidence that family history of the disease, dietary fat consumption, and occupational exposure to cadmium may each increase the risk of prostate cancer.

Although screening can reduce mortality for some types of cancer (e.g., breast, cervical, colorectal), screening for prostate cancer remains controversial, with many scientists maintaining that its effectiveness is still unproven. The ACS recommends that health care providers offer the prostate-specific antigen test and a digital rectal exam annually to men age 50 and older who have at least a 10-year life expectancy. Men at higher risk (African-Americans and those who have a first-degree relative diagnosed with prostate cancer at a young age) should begin testing at age 45. Men at even higher risk, due to multiple first-degree relatives affected at an early age, could begin testing at age 40. Men should be given information about the benefits and limitations of testing so that they can make the most informed decision possible.

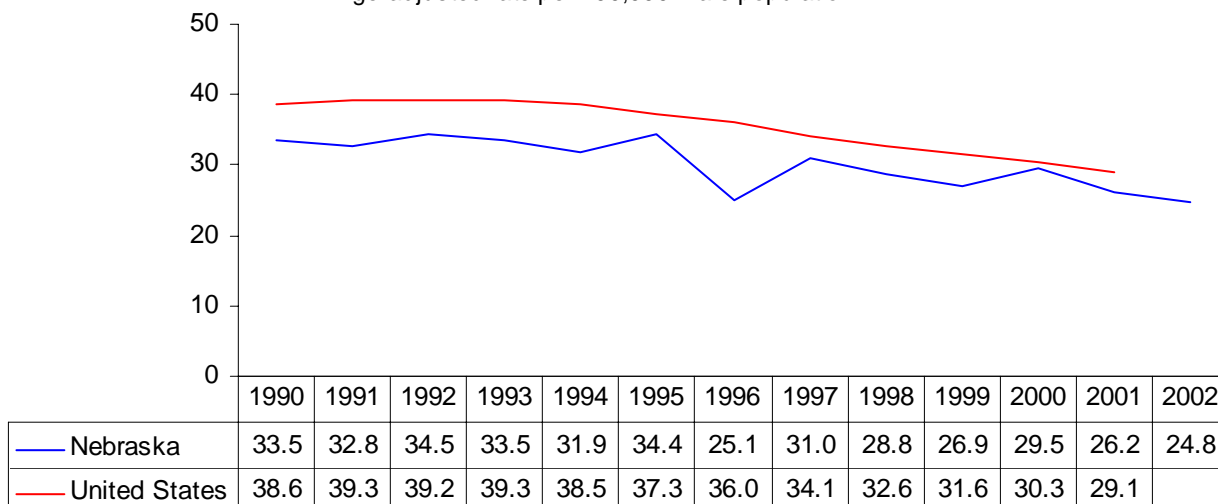
Prostate cancer incidence and mortality statistics by county of residence are presented in Appendix IV (Table 12).

**Prostate Cancer
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)

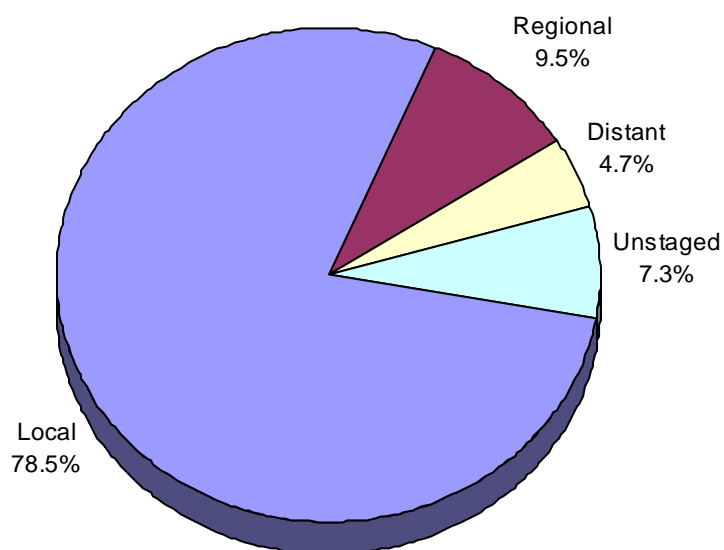


**Prostate Cancer
Mortality Rates, By Year**
Nebraska and the United States (1990-2002)

Age-adjusted rate per 100,000 male population



**Prostate Cancer
% of Cases, By Stage of Disease at Diagnosis**
Nebraska (1998-2002)



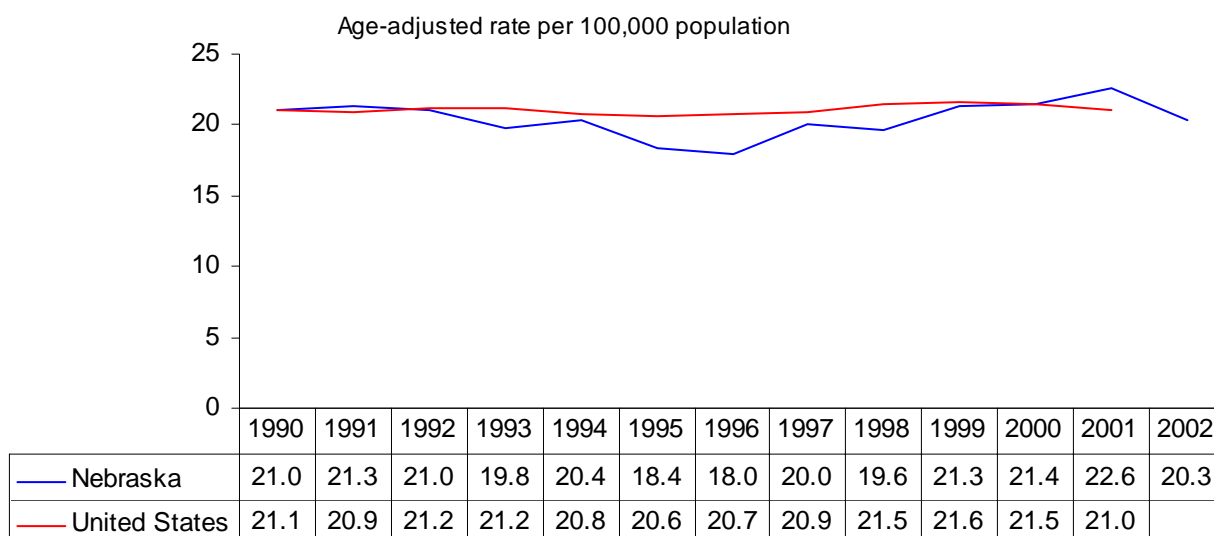
Urinary Bladder

Between 1998 and 2002, almost 1,900 Nebraska residents were diagnosed with bladder cancer. Bladder cancer occurs far more frequently among men than women (by about a 3-to-1 ratio), and now ranks fourth as the most common site of cancer diagnoses among Nebraska men. However, deaths from the disease are much less frequent (355 Nebraska residents died from it during 1998-2002), which is the result of a high percentage of early-stage diagnoses and the existence of effective treatments. Survival prospects have improved considerably in recent decades, to the point where the most current national data show that over 80% of all bladder cancer patients are still alive five years after diagnosis.

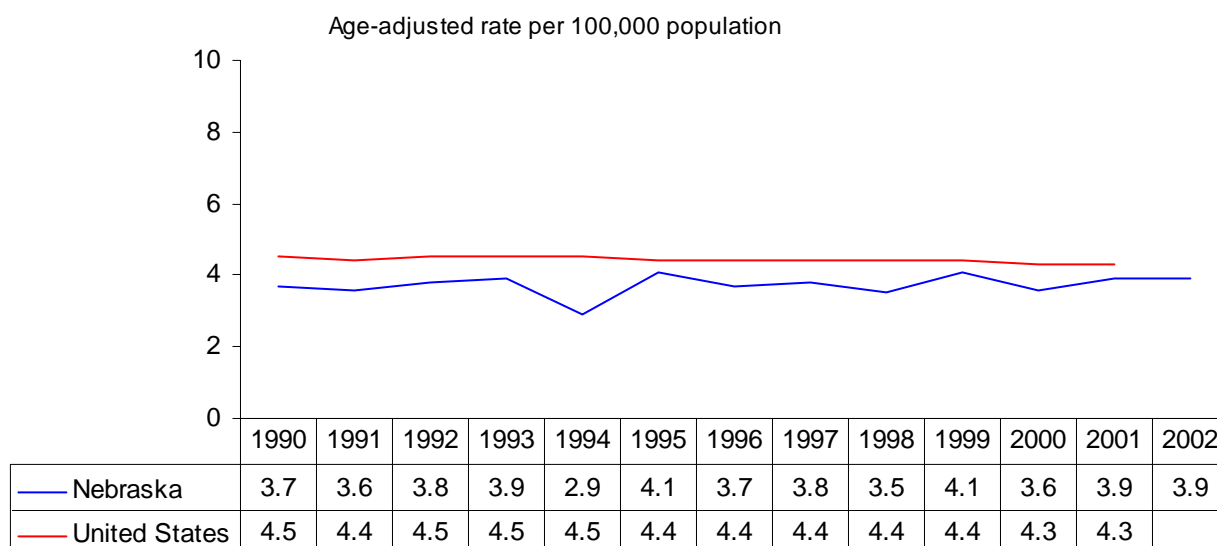
Cigarette smoking is the most important known risk factor for bladder cancer. Smokers develop bladder cancer two to three times more often than non-smokers, and estimates suggest that about one-third of all cases are attributable to smoking. Occupational exposures to certain substances used in the manufacture of dyes (benzidine and 2-naphthylamine) also increase the risk of bladder cancer, as does employment in the rubber and leather industries.

Urinary bladder cancer incidence and mortality statistics by county of residence are presented in Appendix V (Table 13).

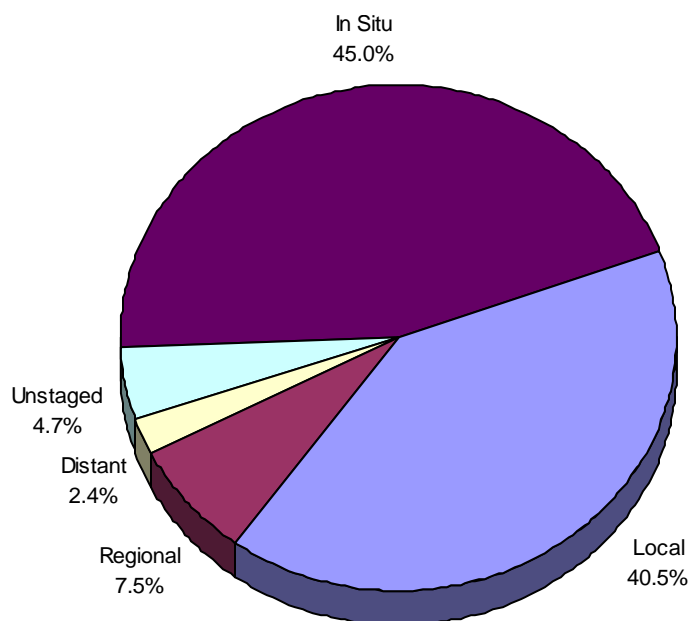
**Urinary Bladder Cancer
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)



Urinary Bladder Cancer Mortality Rates, By Year Nebraska and the United States (1990-2002)



Urinary Bladder Cancer % of Cases, By Stage of Disease at Diagnosis Nebraska (1998-2002)



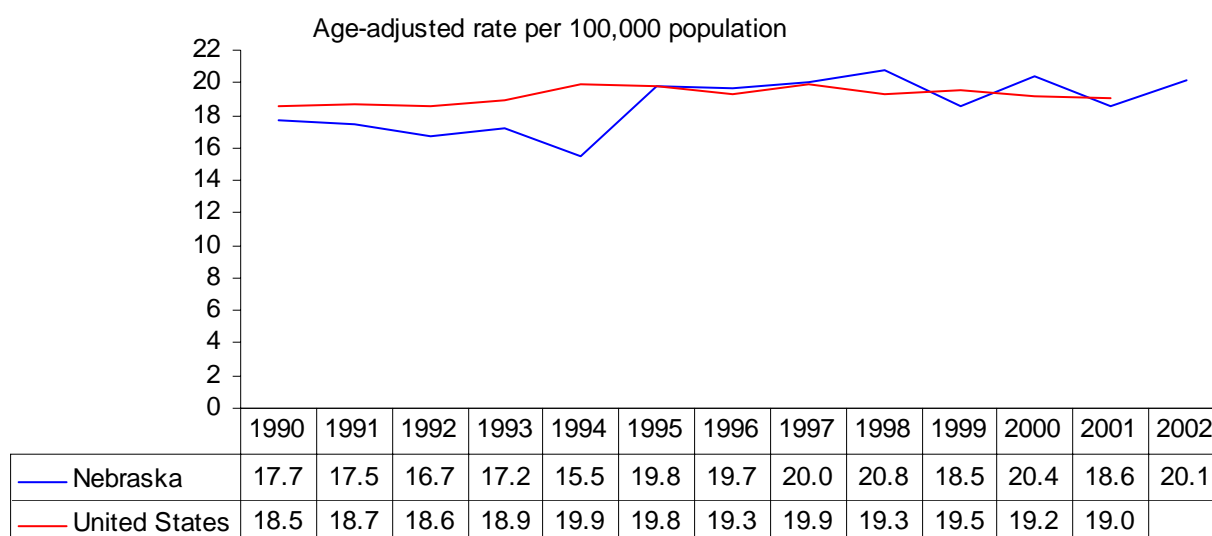
Non-Hodgkin Lymphoma

Lymphomas are cancers that affect the white blood cells of the immune system, and are usually classified as either Hodgkin Disease or Non-Hodgkin lymphoma. Non-Hodgkin lymphoma is by far the more common disorder of the two, accounting for over 1,700 diagnoses and 700 deaths among Nebraska residents between 1998 and 2002 (for Hodgkin Disease, the comparable figures are 255 diagnoses and 52 deaths). National statistics indicate that the incidence rate for Non-Hodgkin lymphoma has increased by about 80% since the mid-1970s, and some of this increase is related to the appearance of AIDS. However, both state and national data show that Non-Hodgkin lymphoma deaths have been increasing since at least 1950, which indicates that factors other than AIDS are also responsible.

The causes of Non-Hodgkin lymphoma are unknown, although there is evidence that viral exposures and reduced immune function are associated with the disease. People whose immune systems have been suppressed by drugs, particularly those who have received an organ transplant, have an extremely high risk of Non-Hodgkin lymphoma, and it also occurs more frequently among people with congenital and acquired immunologic disorders, including AIDS. The increased incidence of the disease among people with congenital disorders of the immune system suggests that hereditary influences may also be a risk factor. Some studies have found that occupational exposure to certain herbicides is a risk factor as well.

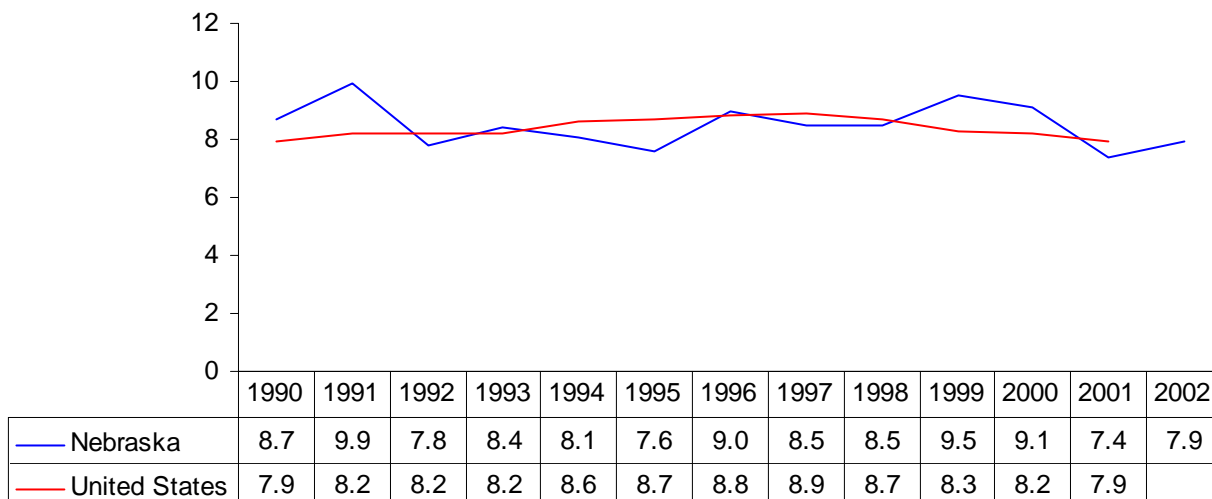
Non-Hodgkin lymphoma incidence and mortality statistics are presented in Appendix VI (Table 14).

**Non-Hodgkin Lymphoma
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)

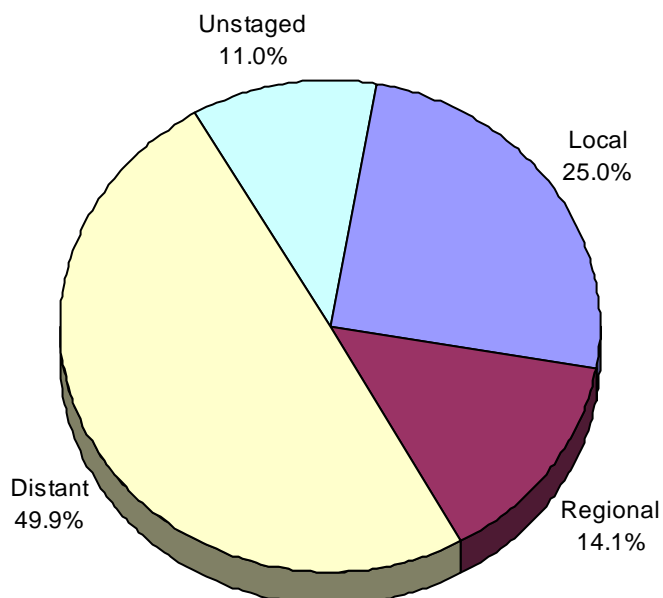


Non-Hodgkin Lymphoma Mortality Rates, By Year Nebraska and the United States (1990-2002)

Age-adjusted rate per 100,000 population



Non-Hodgkin Lymphoma % of Cases, By Stage of Disease at Diagnosis Nebraska (1998-2002)



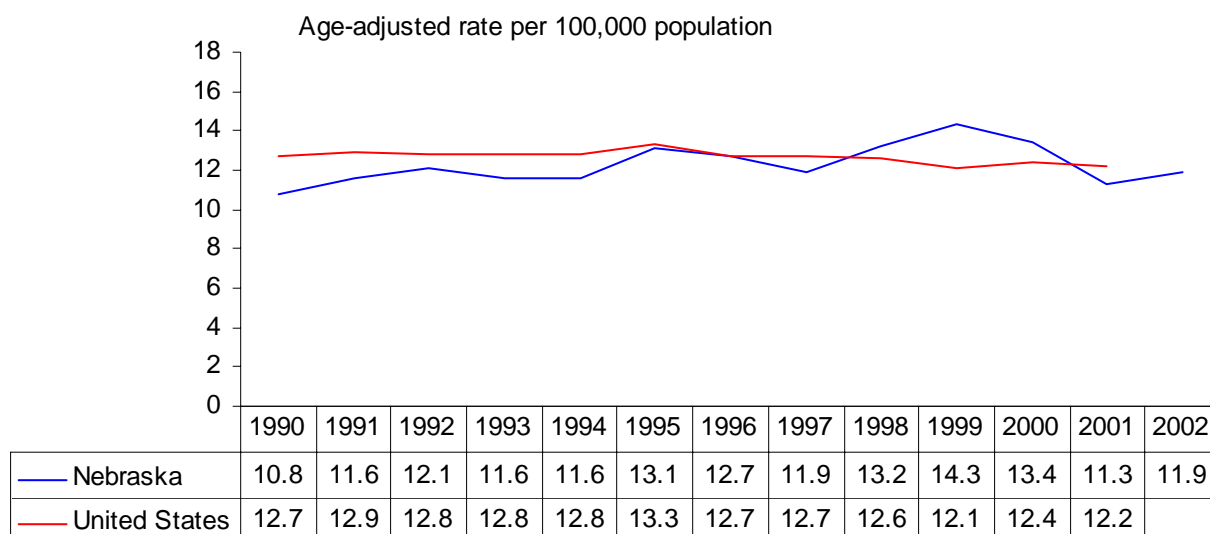
Leukemia

Between 1998 and 2002, leukemia accounted for more than 1,100 diagnoses and over 700 deaths among Nebraska residents. Although it is sometimes thought of as a children's disease, statistics show that this is not strictly true. In fact, more than six of every ten leukemia cases that occurred in Nebraska between 1998 and 2002 were 65 or older at diagnosis. At the same time, however, leukemia was also the state's most common type of childhood cancer, accounting for about one-quarter of all cancers diagnosed among Nebraska residents under the age of 18. By type, acute lymphocytic leukemia was the most frequently diagnosed among children, while acute myeloid and chronic lymphocytic were the most common types among adults.

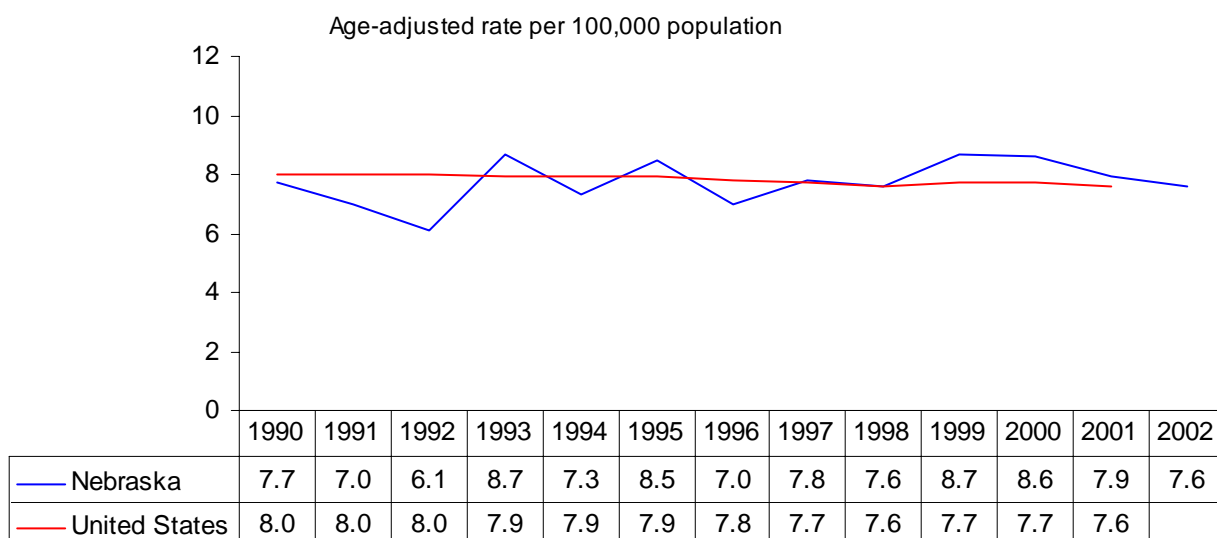
The major causes of most types of leukemia are unknown. Nevertheless, several risk factors have been identified, and include genetic abnormalities (such as Down's syndrome), exposure to ionizing radiation, and workplace exposure to benzene and other related solvents. Adult T-cell leukemia is strongly associated with infection by a retrovirus, HTLV-I (human T-lymphotropic virus, type I). Some evidence also suggests that cigarette smoking is a risk factor for certain types of leukemia.

Leukemia incidence and mortality statistics by county of residence are presented in Appendix VII (Table 15).

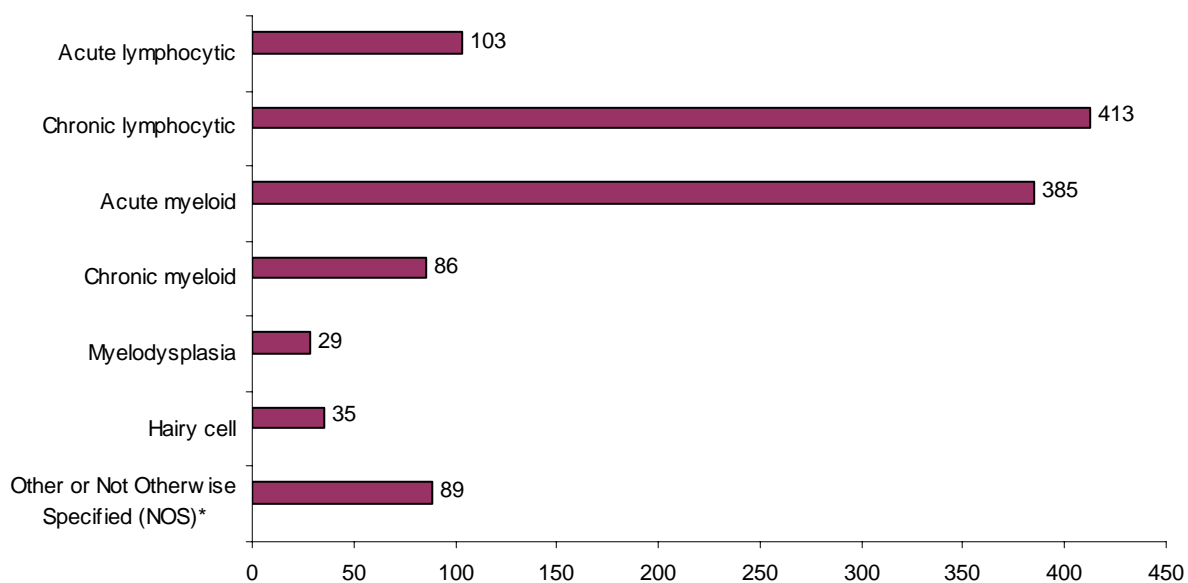
Leukemia
Incidence Rates, By Year
Nebraska and the United States (1990-2002)



Leukemia Mortality Rates, By Year Nebraska and the United States (1990-2002)



Number of Leukemia Diagnoses, By Histologic Type Nebraska, 1998 – 2002



*includes plasma cell leukemia (1 case); acute biphenotypic leukemia (1 case); acute leukemia, NOS (37 cases); chronic leukemia, NOS (3 cases); lymphoid leukemia, NOS (12 cases); myeloid leukemia, NOS (10 cases); leukemia, NOS (25 cases)

Abbreviation: NOS, not otherwise specified

Kidney and Renal Pelvis

Cancers of the kidney and renal pelvis accounted for more than 1,100 diagnoses in Nebraska between 1998 and 2002, making it the state's ninth leading cause of new cancer cases. It also accounted for more than 400 deaths in Nebraska during the same period. Trends since 1990 show little change in the rate of diagnosis or death from cancer of the kidney, either at the state or national level. The chances of survival for people with kidney cancer are relatively high, with the most current national statistics showing that more than 60% of cases remain alive at least five years after diagnosis.

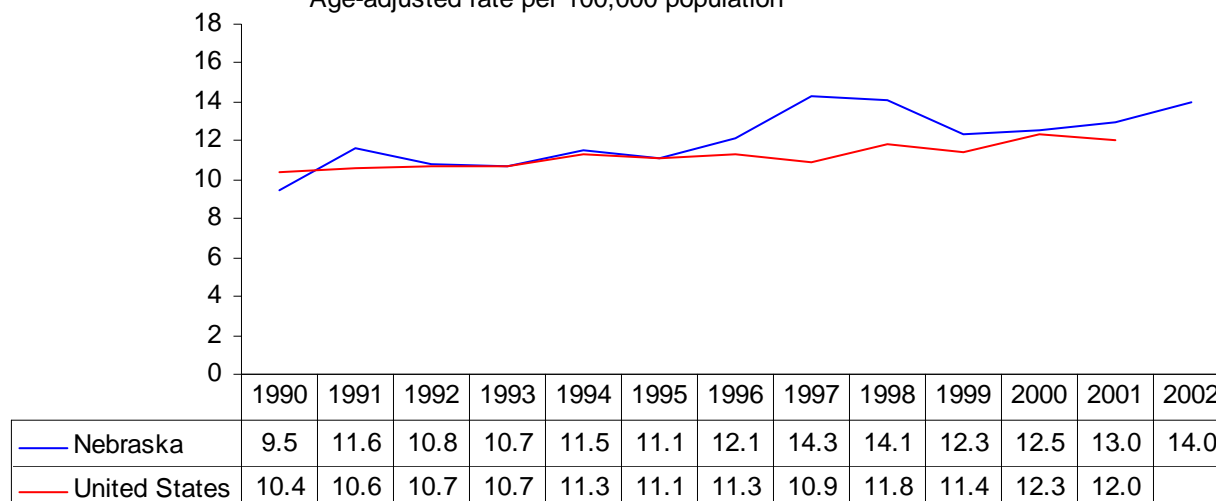
Preventable risk factors for cancer of the kidney include cigarette smoking and obesity. Current estimates indicate that

smoking is responsible for about one-third of all kidney cancer deaths. Non-preventable risk factors for cancer of the kidney include age, certain hereditary conditions, family history of kidney cancer, coexisting kidney disease, and high blood pressure. However, since people with high blood pressure are often treated with drugs, it is unclear whether their increased risk is related to their high blood pressure or the drugs. Nevertheless, people who need drugs to lower their blood pressure should take them.

Kidney and renal pelvis cancer incidence and mortality statistics by county of residence are presented in Appendix VIII (Table 16).

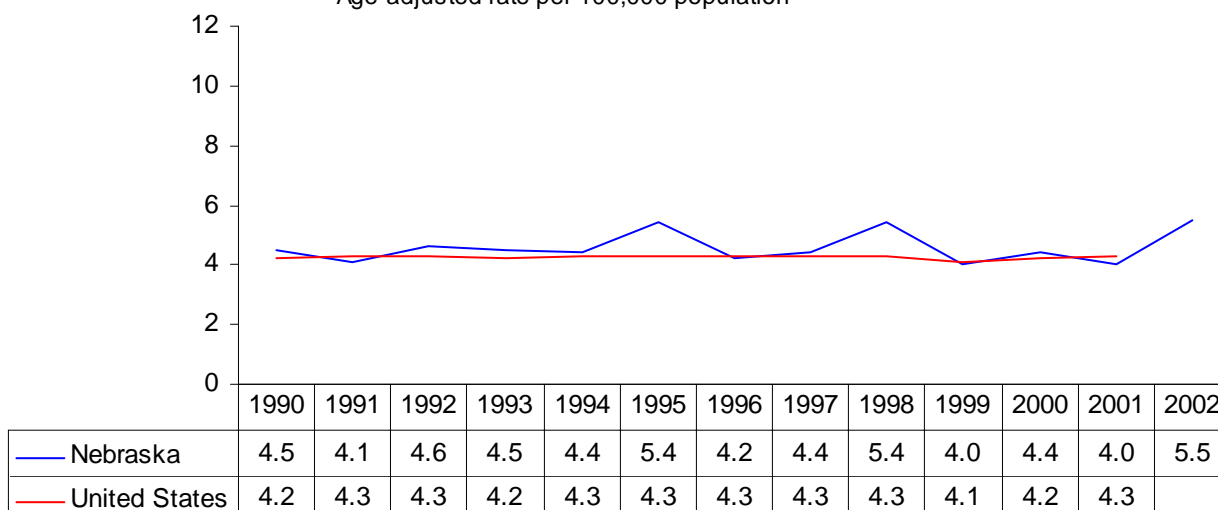
Kidney and Renal Pelvis Cancer Incidence Rates, By Year Nebraska and the United States (1990-2002)

Age-adjusted rate per 100,000 population

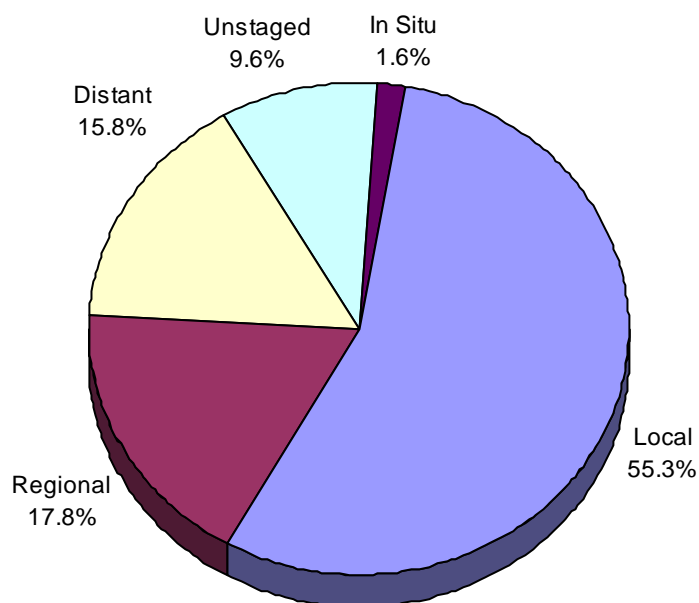


Kidney and Renal Pelvis Cancer Mortality Rates, By Year Nebraska and the United States (1990-2002)

Age-adjusted rate per 100,000 population



Kidney and Renal Pelvis Cancer % of Cases, By Stage of Disease at Diagnosis Nebraska (1998-2002)



Melanoma of the Skin

There are several different types of skin cancer, but melanomas are the most serious. Nationally, melanomas comprise only about 5% of all skin cancer diagnoses but about 75% of all skin cancer deaths. In Nebraska, melanomas of the skin accounted for more than 1,200 diagnoses and 200 deaths between 1998 and 2002. The incidence of melanoma has risen dramatically in recent years: in Nebraska, the rate has increased by more than 50% since 1990 (some of this may be due to improved case reporting, however), while the national rate has doubled in the span of just 20 years.

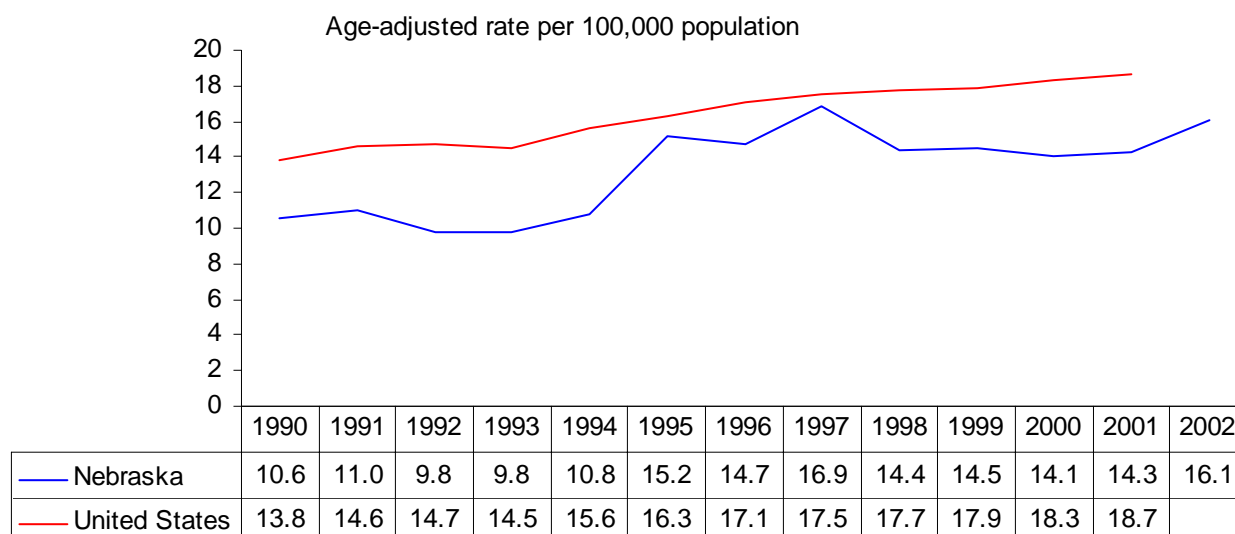
Melanoma is related to exposure to ultraviolet radiation (most of which comes from the sun), particularly exposures during childhood that resulted in severe sunburns. The risk of developing melanoma is particularly high among people with light skin. Sun exposure is not the only risk factor, however: family history of melanoma

and the presence of dysplastic nevi (large moles with irregular coloration and shape) also carry some increased risk.

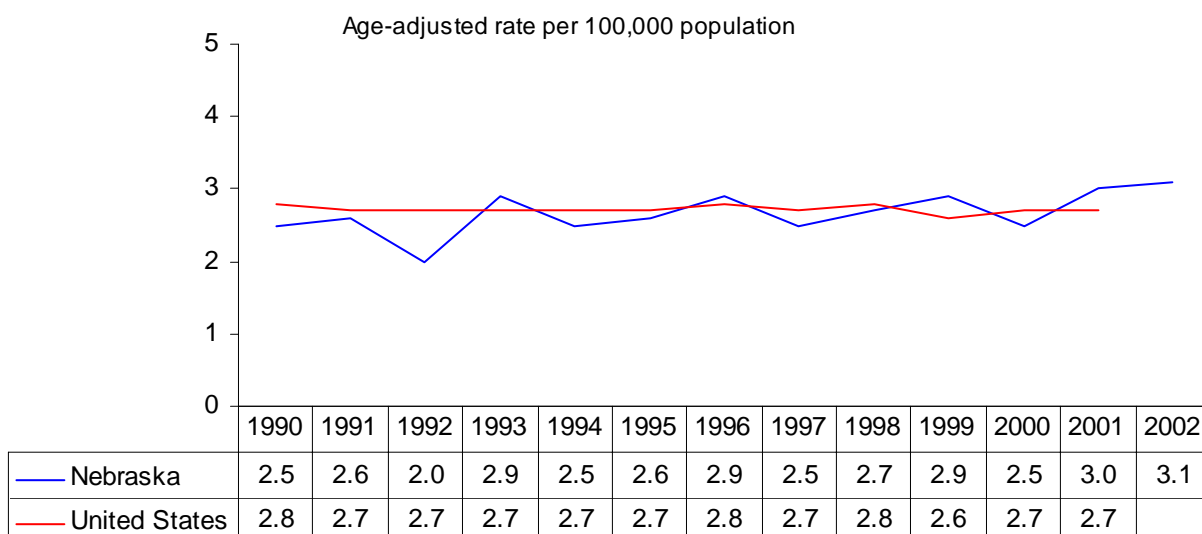
Skin melanomas are among the most preventable and treatable of all cancers. Wearing protective clothing and using sunscreen are the best methods for preventing the disease, and children in particular should have such protection. In addition, early detection can greatly reduce the risk of melanoma mortality. Recognition of changes in skin growths or the appearance of new growths is the best way to find melanomas early in their development. The ACS suggests that adults practice skin self-examination regularly, and that suspicious lesions be evaluated promptly by a physician.

Melanoma of the skin incidence and mortality statistics by county of residence are presented in Appendix IX (Table 17).

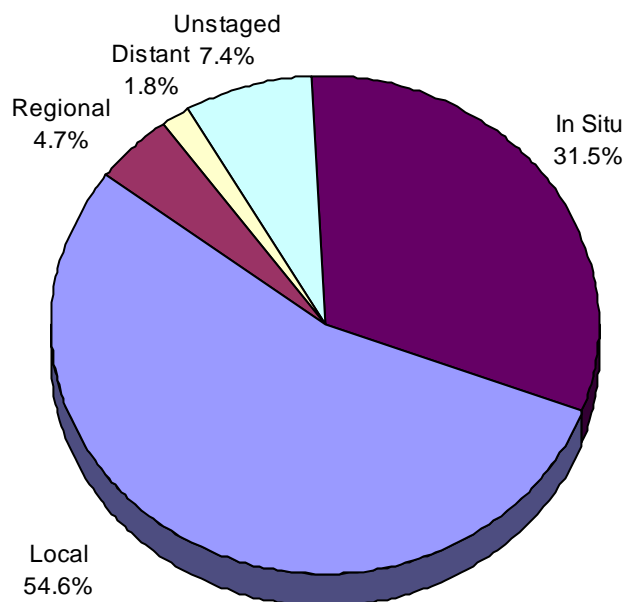
**Melanoma of the Skin
Incidence Rates, By Year**
Nebraska and the United States (1990-2002)



**Melanoma of the Skin
Mortality Rates, By Year**
Nebraska and the United States (1990-2002)



**Melanoma of the Skin
% of Cases, By Stage of Disease at Diagnosis**
Nebraska (1998-2002)



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APPENDICES

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TABLE 9: Lung and Bronchus Cancer Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 64.8 | NA | 56.2 |
| NEBRASKA | 5,459 | 61.8 | 4,472 | 50.2 |
| <u>COUNTY</u> | | | | |
| ADAMS | 123 | 69.5 | 93 | 50.9 |
| ANTELOPE | 30 | 56.5 | 31 | 56.7 |
| ARTHUR | -- | -- | 1 | ** |
| BANNER | -- | -- | -- | -- |
| BLAINE | -- | -- | -- | -- |
| BOONE | 17 | 38.6 | 17 | 35.5 |
| BOX BUTTE | 43 | 65.4 | 33 | 49.9 |
| BOYD | 8 | 39.8 | 8 | 35.9 |
| BROWN | 11 | 39.5 | 9 | 30.5 |
| BUFFALO | 97 | 53.0 | 90 | 48.5 |
| BURT | 50 | 87.2 | 45 | 73.2 |
| BUTLER | 28 | 46.7 | 27 | 46.2 |
| CASS | 70 | 56.8 | 64 | 52.0 |
| CEDAR | 33 | 51.5 | 20 | 31.1 |
| CHASE | 14 | 46.1 | 14 | 47.1 |
| CHERRY | 15 | 37.2 | 12 | 29.4 |
| CHEYENNE | 27 | 43.0 | 29 | 44.8 |
| CLAY | 25 | 55.4 | 22 | 49.0 |
| COLFAX | 29 | 48.7 | 22 | 36.6 |
| CUMING | 25 | ▼ 34.0 | 22 | 30.3 |
| CUSTER | 46 | 52.7 | 37 | 41.7 |
| DAKOTA | 72 | 86.1 | 59 | 71.7 |
| DAWES | 25 | 49.5 | 27 | 50.8 |
| DAWSON | 79 | 62.1 | 63 | 48.3 |
| DEUEL | 11 | 66.9 | 13 | 81.0 |
| DIXON | 19 | 48.0 | 18 | 42.9 |
| DODGE | 140 | 62.6 | 112 | 48.6 |
| DOUGLAS | 1,582 | ▲ 77.1 | 1,249 | ▲ 61.0 |
| DUNDY | 6 | 31.0 | 6 | 31.0 |
| FILLMORE | 36 | 72.3 | 31 | 61.2 |
| FRANKLIN | 22 | 79.7 | 25 | 84.4 |
| FRONTIER | 7 | 36.7 | 3 | ** |
| FURNAS | 21 | 48.3 | 17 | 38.9 |
| GAGE | 75 | 48.2 | 72 | 45.4 |
| GARDEN | 12 | 60.0 | 9 | 44.9 |
| GARFIELD | 9 | 55.0 | 5 | ** |
| GOSPER | 8 | 49.2 | 6 | 37.5 |
| GRANT | -- | -- | -- | -- |
| GREELEY | 10 | 52.8 | 6 | 28.5 |
| HALL | 190 | 66.8 | 143 | 49.8 |
| HAMILTON | 28 | 52.1 | 24 | 44.2 |
| HARLAN | 14 | 48.1 | 11 | 37.5 |
| HAYES | 4 | ** | 4 | ** |
| HITCHCOCK | 9 | 39.1 | 12 | 49.4 |
| HOLT | 37 | 42.6 | 36 | 41.3 |
| HOOKER | 3 | ** | 1 | ** |
| HOWARD | 20 | 48.3 | 20 | 47.2 |

TABLE 9: Lung and Bronchus Cancer Incidence and Mortality
(Continued)
Number of Cases, Deaths, and Rates, By County of Residence,
Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 15 | ▼ 21.0 | 17 | ▼ 25.3 |
| JOHNSON | 16 | 44.2 | 11 | 28.7 |
| KEARNEY | 23 | 56.5 | 23 | 57.9 |
| KEITH | 35 | 56.5 | 27 | 43.0 |
| KEYA PAHA | 1 | ** | 2 | ** |
| KIMBALL | 21 | 65.3 | 16 | 49.6 |
| KNOX | 36 | 44.5 | 26 | 31.4 |
| LANCASTER | 648 | 61.6 | 545 | 51.8 |
| LINCOLN | 138 | 69.2 | 116 | 57.9 |
| LOGAN | 2 | ** | -- | -- |
| LOUP | -- | -- | 2 | ** |
| McPHERSON | 2 | ** | 2 | ** |
| MADISON | 118 | 64.1 | 93 | 50.6 |
| MERRICK | 27 | 53.4 | 26 | 51.9 |
| MORRILL | 14 | 41.5 | 13 | 39.7 |
| NANCE | 15 | 54.8 | 11 | 43.6 |
| NEMAHA | 25 | 51.5 | 28 | 56.4 |
| NUCKOLLS | 25 | 52.2 | 27 | 56.4 |
| OTOE | 56 | 56.3 | 44 | 43.2 |
| PAWNEE | 15 | 50.0 | 11 | 34.8 |
| PERKINS | 5 | ** | 4 | ** |
| PHELPS | 30 | 47.6 | 26 | 40.9 |
| PIERCE | 23 | 51.0 | 13 | 27.1 |
| PLATTE | 100 | 60.6 | 75 | 45.3 |
| POLK | 18 | 44.0 | 14 | 30.8 |
| RED WILLOW | 51 | 65.1 | 40 | 50.0 |
| RICHARDSON | 47 | 67.9 | 42 | 61.0 |
| ROCK | 7 | 55.5 | 5 | ** |
| SALINE | 43 | 52.2 | 38 | 45.5 |
| SARPY | 284 | 71.2 | 209 | 53.6 |
| SAUNDERS | 66 | 56.5 | 53 | 45.9 |
| SCOTTS BLUFF | 132 | 57.7 | 110 | 46.7 |
| SEWARD | 47 | 50.5 | 42 | 44.0 |
| SHERIDAN | 26 | 55.4 | 19 | 37.6 |
| SHERMAN | 12 | 44.9 | 7 | 23.2 |
| SIOUX | 4 | ** | 6 | 62.5 |
| STANTON | 15 | 46.1 | 19 | 58.4 |
| THAYER | 13 | ▼ 24.0 | 14 | ▼ 24.1 |
| THOMAS | 1 | ** | -- | -- |
| THURSTON | 16 | 45.2 | 16 | 45.3 |
| VALLEY | 17 | 43.7 | 12 | 29.4 |
| WASHINGTON | 52 | 53.7 | 44 | 45.8 |
| WAYNE | 23 | 47.5 | 14 | 27.9 |
| WEBSTER | 20 | 56.9 | 11 | 30.8 |
| WHEELER | 4 | ** | 2 | ** |
| YORK | 41 | 44.8 | 29 | 29.8 |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

▲ county rate significantly higher than the state rate

TABLE 10: Female Breast Cancer Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 137.5 | NA | 27.0 |
| NEBRASKA | 6,354 | 133.9 | 1,236 | 24.2 |
| <u>COUNTY</u> | | | | |
| ADAMS | 107 | 109.8 | 17 | 18.0 |
| ANTELOPE | 36 | 127.7 | 11 | 38.2 |
| ARTHUR | 2 | ** | 1 | ** |
| BANNER | 3 | ** | -- | -- |
| BLAINE | 2 | ** | -- | -- |
| BOONE | 37 | 170.5 | 4 | ** |
| BOX BUTTE | 37 | 112.1 | 7 | 18.5 |
| BOYD | 16 | 141.0 | 3 | ** |
| BROWN | 18 | 125.2 | 3 | ** |
| BUFFALO | 121 | 114.2 | 25 | 22.1 |
| BURT | 39 | 135.5 | 6 | 22.4 |
| BUTLER | 38 | 133.3 | 10 | 28.7 |
| CASS | 75 | 110.2 | 13 | 18.2 |
| CEDAR | 34 | 96.6 | 5 | ** |
| CHASE | 21 | 137.0 | 4 | ** |
| CHERRY | 25 | 126.7 | 4 | ** |
| CHEYENNE | 43 | 136.2 | 9 | 27.3 |
| CLAY | 28 | 114.7 | 5 | ** |
| COLFAX | 45 | 141.0 | 7 | 14.2 |
| CUMING | 40 | 100.6 | 11 | 23.5 |
| CUSTER | 45 | 101.0 | 11 | 22.5 |
| DAKOTA | 61 | 133.8 | 13 | 27.3 |
| DAWES | 35 | 141.3 | 7 | 22.3 |
| DAWSON | 94 | 141.3 | 23 | 33.2 |
| DEUEL | 11 | 150.3 | -- | -- |
| DIXON | 22 | 110.0 | 3 | ** |
| DODGE | 162 | 142.8 | 39 | 32.0 |
| DOUGLAS | 1,639 | ▲ 141.1 | 339 | 28.3 |
| DUNDY | 9 | 92.3 | 2 | ** |
| FILLMORE | 29 | 115.2 | 8 | 30.6 |
| FRANKLIN | 23 | 167.2 | 5 | ** |
| FRONTIER | 9 | 79.4 | 2 | ** |
| FURNAS | 21 | 102.6 | 4 | ** |
| GAGE | 124 | 152.1 | 19 | 20.5 |
| GARDEN | 17 | 202.5 | 5 | ** |
| GARFIELD | 10 | 105.5 | 3 | ** |
| GOSPER | 7 | 87.6 | -- | -- |
| GRANT | 1 | ** | -- | -- |
| GREELEY | 15 | 148.0 | 6 | 53.1 |
| HALL | 194 | 131.2 | 27 | 16.1 |
| HAMILTON | 32 | 112.5 | 8 | 27.5 |
| HARLAN | 19 | 113.7 | 4 | ** |
| HAYES | 3 | ** | 2 | ** |
| HITCHCOCK | 13 | 117.4 | 4 | ** |
| HOLT | 55 | 132.4 | 11 | 28.9 |
| HOOKER | 6 | 152.0 | 1 | ** |
| HOWARD | 23 | 120.5 | 8 | 34.5 |

TABLE 10: Female Breast Cancer Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 33 | 101.1 | 9 | 26.5 |
| JOHNSON | 26 | 138.4 | 8 | 33.5 |
| KEARNEY | 21 | 97.4 | 6 | 24.4 |
| KEITH | 31 | 100.3 | 12 | 36.7 |
| KEYA PAHA | 4 | ** | -- | -- |
| KIMBALL | 20 | 125.2 | 3 | ** |
| KNOX | 25 | ▼ 64.8 | 4 | ** |
| LANCASTER | 857 | 144.3 | 160 | 25.8 |
| LINCOLN | 144 | 136.9 | 33 | 30.3 |
| LOGAN | 5 | ** | 2 | ** |
| LOUP | 2 | ** | -- | -- |
| McPHERSON | 3 | ** | 1 | ** |
| MADISON | 144 | 147.3 | 22 | 20.2 |
| MERRICK | 36 | 128.3 | 2 | ** |
| MORRILL | 15 | 90.0 | 3 | ** |
| NANCE | 28 | 172.0 | 6 | 37.7 |
| NEMAHA | 37 | 146.0 | 4 | ** |
| NUCKOLLS | 29 | 129.8 | 11 | 41.5 |
| OTOE | 78 | 139.8 | 9 | 18.0 |
| PAWNEE | 22 | 132.8 | 4 | ** |
| PERKINS | 13 | 144.6 | 5 | ** |
| PHELPS | 51 | 158.4 | 7 | 22.8 |
| PIERCE | 34 | 133.4 | 5 | ** |
| PLATTE | 133 | 151.9 | 21 | 22.8 |
| POLK | 13 | ▼ 65.0 | 2 | ** |
| RED WILLOW | 44 | 121.1 | 13 | 33.9 |
| RICHARDSON | 45 | 133.2 | 13 | 28.4 |
| ROCK | 6 | 110.3 | -- | -- |
| SALINE | 57 | 139.7 | 11 | 21.5 |
| SARPY | 351 | 146.0 | 54 | 24.2 |
| SAUNDERS | 79 | 134.6 | 19 | 26.6 |
| SCOTTS BLUFF | 138 | 111.7 | 26 | 20.3 |
| SEWARD | 74 | 148.4 | 8 | 12.5 |
| SHERIDAN | 23 | 98.0 | 7 | 28.5 |
| SHERMAN | 13 | 96.8 | 2 | ** |
| SIOUX | 2 | ** | -- | -- |
| STANTON | 19 | 106.6 | 4 | ** |
| THAYER | 29 | 133.1 | 8 | 24.7 |
| THOMAS | 3 | ** | -- | -- |
| THURSTON | 15 | 91.9 | 2 | ** |
| VALLEY | 8 | ▼ 48.4 | 3 | ** |
| WASHINGTON | 66 | 125.6 | 12 | 21.2 |
| WAYNE | 31 | 113.6 | 5 | ** |
| WEBSTER | 23 | 140.8 | 1 | ** |
| WHEELER | 6 | 188.3 | 1 | ** |
| YORK | 72 | 142.5 | 9 | 17.7 |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 female population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

▲ county rate significantly higher than the state rate

TABLE 11: Colon and Rectum (Colorectal) Cancer Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 54.6 | NA | 20.8 |
| NEBRASKA | 5,295 | 58.6 | 1,998 | 21.6 |
| <u>COUNTY</u> | | | | |
| ADAMS | 95 | 49.5 | 50 | 24.8 |
| ANTELOPE | 28 | 53.8 | 13 | 23.2 |
| ARTHUR | -- | -- | -- | -- |
| BANNER | 2 | ** | -- | -- |
| BLAINE | 1 | ** | 2 | ** |
| BOONE | 38 | 89.1 | 9 | 17.1 |
| BOX BUTTE | 37 | 54.3 | 19 | 27.8 |
| BOYD | 11 | 53.8 | 6 | 32.5 |
| BROWN | 12 | 45.0 | 2 | ** |
| BUFFALO | 114 | 59.2 | 37 | 18.6 |
| BURT | 33 | 59.2 | 12 | 17.3 |
| BUTLER | 33 | 53.6 | 15 | 27.6 |
| CASS | 66 | 53.6 | 24 | 19.5 |
| CEDAR | 49 | 70.3 | 18 | 25.4 |
| CHASE | 13 | 41.3 | 7 | 19.8 |
| CHERRY | 16 | 41.3 | 14 | 32.8 |
| CHEYENNE | 36 | 59.4 | 10 | 16.0 |
| CLAY | 25 | 59.4 | 18 | 37.6 |
| COLFAX | 35 | 57.3 | 14 | 21.2 |
| CUMING | 38 | 47.9 | 13 | 13.8 |
| CUSTER | 53 | 60.7 | 20 | 23.3 |
| DAKOTA | 59 | 70.2 | 24 | 29.0 |
| DAWES | 32 | 63.6 | 9 | 17.0 |
| DAWSON | 59 | 45.6 | 26 | 19.7 |
| DEUEL | 4 | ** | 4 | ** |
| DIXON | 22 | 50.0 | 6 | 15.3 |
| DODGE | 186 | 80.2 | 68 | 27.2 |
| DOUGLAS | 1,251 | 60.7 | 462 | 22.5 |
| DUNDY | 8 | 41.0 | 2 | ** |
| FILLMORE | 20 | 36.1 | 12 | 20.2 |
| FRANKLIN | 17 | 57.8 | 13 | 40.6 |
| FRONTIER | 14 | 78.0 | 6 | 30.1 |
| FURNAS | 21 | 48.5 | 7 | 14.9 |
| GAGE | 84 | 50.6 | 36 | 19.4 |
| GARDEN | 18 | 94.0 | 4 | ** |
| GARFIELD | 10 | 50.1 | 4 | ** |
| GOSPER | 8 | 46.9 | 5 | ** |
| GRANT | 1 | ** | -- | -- |
| GREELEY | 14 | 64.9 | 3 | ** |
| HALL | 164 | 56.8 | 65 | 21.8 |
| HAMILTON | 21 | 38.8 | 11 | 20.0 |
| HARLAN | 14 | 49.0 | 11 | 35.2 |
| HAYES | 1 | ** | 1 | ** |
| HITCHCOCK | 9 | 33.0 | 5 | ** |
| HOLT | 54 | 71.3 | 21 | 23.4 |
| HOOKER | 7 | 79.0 | -- | -- |
| HOWARD | 20 | 44.8 | 7 | 15.4 |

TABLE 11: Colon and Rectum (Colorectal) Cancer Incidence and Mortality
 (Continued)
 Numbers of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 38 | 60.1 | 12 | 19.6 |
| JOHNSON | 29 | 74.7 | 10 | 24.4 |
| KEARNEY | 25 | 57.3 | 10 | 21.1 |
| KEITH | 36 | 60.0 | 12 | 19.7 |
| KEYA PAHA | 4 | ** | 2 | ** |
| KIMBALL | 13 | 39.4 | 4 | ** |
| KNOX | 55 | 72.2 | 20 | 25.3 |
| LANCASTER | 634 | 59.3 | 227 | 21.3 |
| LINCOLN | 115 | 56.2 | 42 | 20.3 |
| LOGAN | -- | -- | 1 | ** |
| LOUP | 3 | ** | 3 | ** |
| McPHERSON | 1 | ** | 1 | ** |
| MADISON | 127 | 66.8 | 37 | 20.1 |
| MERRICK | 33 | 60.0 | 15 | 24.7 |
| MORRILL | 19 | 53.2 | 5 | ** |
| NANCE | 25 | 82.2 | 8 | 25.4 |
| NEMAHA | 32 | 57.3 | 18 | 30.8 |
| NUCKOLLS | 31 | 72.2 | 6 | 11.9 |
| OTOE | 75 | 70.3 | 21 | 18.4 |
| PAWNEE | 23 | 85.3 | 7 | 19.2 |
| PERKINS | 13 | 57.3 | 5 | ** |
| PHELPS | 29 | 44.8 | 14 | 19.7 |
| PIERCE | 25 | 46.5 | 10 | 20.4 |
| PLATTE | 111 | 65.6 | 48 | 27.7 |
| POLK | 31 | 79.2 | 9 | 20.4 |
| RED WILLOW | 47 | 57.7 | 14 | 18.2 |
| RICHARDSON | 52 | 69.4 | 23 | 31.1 |
| ROCK | 10 | 76.0 | 5 | ** |
| SALINE | 72 | 85.0 | 21 | 21.4 |
| SARPY | 214 | 58.6 | 75 | 22.6 |
| SAUNDERS | 63 | 53.4 | 17 | 14.5 |
| SCOTTS BLUFF | 111 | 46.3 | 50 | 20.2 |
| SEWARD | 61 | 62.8 | 24 | 23.5 |
| SHERIDAN | 28 | 60.7 | 9 | 18.8 |
| SHERMAN | 19 | 70.3 | 5 | ** |
| SIOUX | 1 | ** | 1 | ** |
| STANTON | 10 | 28.4 | 4 | ** |
| THAYER | 26 | 52.6 | 10 | 20.6 |
| THOMAS | 4 | ** | -- | -- |
| THURSTON | 26 | 74.9 | 7 | 19.0 |
| VALLEY | 14 | 35.3 | 5 | ** |
| WASHINGTON | 52 | 53.9 | 23 | 23.3 |
| WAYNE | 25 | 46.6 | 8 | 14.1 |
| WEBSTER | 20 | 62.7 | 6 | 14.9 |
| WHEELER | 1 | ** | 1 | ** |
| YORK | 59 | 60.0 | 28 | 26.1 |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

TABLE 12: Prostate Cancer Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 175.5 | NA | 31.5 |
| NEBRASKA | 6,328 | 163.8 | 974 | 27.3 |
| <u>COUNTY</u> | | | | |
| ADAMS | 100 | 132.5 | 22 | 29.1 |
| ANTELOPE | 44 | 185.3 | 3 | ** |
| ARTHUR | 3 | ** | -- | -- |
| BANNER | 6 | 216.1 | -- | -- |
| BLAINE | 3 | ** | -- | -- |
| BOONE | 37 | 179.0 | 6 | 28.0 |
| BOX BUTTE | 63 | 217.2 | 7 | 26.0 |
| BOYD | 21 | 216.4 | 2 | ** |
| BROWN | 13 | 95.8 | 4 | ** |
| BUFFALO | 160 | 201.8 | 20 | 26.1 |
| BURT | 47 | 168.4 | 8 | 29.1 |
| BUTLER | 46 | 173.5 | 8 | 29.1 |
| CASS | 79 | 137.1 | 9 | 21.9 |
| CEDAR | 62 | 206.1 | 8 | 26.1 |
| CHASE | 24 | 174.3 | 5 | ** |
| CHERRY | 16 | 90.2 | 1 | ** |
| CHEYENNE | 52 | 193.1 | 8 | 30.2 |
| CLAY | 43 | 203.4 | 6 | 28.9 |
| COLFAX | 51 | 201.8 | 7 | 29.1 |
| CUMING | 44 | 128.4 | 9 | 25.5 |
| CUSTER | 82 | 216.0 | 12 | 28.4 |
| DAKOTA | 34 | ▼ 91.0 | 9 | 31.3 |
| DAWES | 41 | 191.0 | 10 | 46.6 |
| DAWSON | 87 | 153.5 | 16 | 28.4 |
| DEUEL | 19 | 233.3 | 4 | ** |
| DIXON | 18 | 105.1 | 7 | 38.4 |
| DODGE | 191 | 195.9 | 20 | 21.9 |
| DOUGLAS | 1,318 | ▼ 151.0 | 207 | 28.4 |
| DUNDY | 15 | 195.3 | 4 | ** |
| FILLMORE | 40 | 189.1 | 6 | 27.1 |
| FRANKLIN | 21 | 154.9 | 5 | ** |
| FRONTIER | 11 | 121.4 | 1 | ** |
| FURNAS | 25 | 135.5 | 10 | 53.5 |
| GAGE | 82 | 121.7 | 20 | 28.6 |
| GARDEN | 15 | 176.0 | 2 | ** |
| GARFIELD | 19 | 272.2 | 2 | ** |
| GOSPER | 13 | 166.8 | 3 | ** |
| GRANT | 3 | ** | -- | -- |
| GREELEY | 22 | 230.1 | 2 | ** |
| HALL | 228 | 180.4 | 34 | 28.4 |
| HAMILTON | 41 | 167.4 | 12 | 49.5 |
| HARLAN | 24 | 164.1 | -- | -- |
| HAYES | 2 | ** | 1 | ** |
| HITCHCOCK | 15 | 135.4 | 4 | ** |
| HOLT | 73 | 199.9 | 8 | 21.5 |
| HOOKER | 5 | ** | 1 | ** |
| HOWARD | 35 | 187.3 | 8 | 44.0 |

TABLE 12: Prostate Cancer Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 36 | 126.2 | 8 | 26.3 |
| JOHNSON | 25 | 169.1 | 5 | ** |
| KEARNEY | 29 | 156.1 | 4 | ** |
| KEITH | 55 | 192.2 | 8 | 38.5 |
| KEYA PAHA | 1 | ** | 5 | ** |
| KIMBALL | 33 | 232.8 | 2 | ** |
| KNOX | 75 | 220.7 | 11 | 29.2 |
| LANCASTER | 727 | 160.9 | 110 | 29.3 |
| LINCOLN | 118 | 133.2 | 26 | 32.1 |
| LOGAN | 1 | ** | -- | -- |
| LOUP | 4 | ** | 1 | ** |
| McPHERSON | 5 | ** | -- | -- |
| MADISON | 165 | 206.8 | 18 | 23.0 |
| MERRICK | 47 | 197.9 | 6 | 27.0 |
| MORRILL | 40 | 251.4 | 2 | ** |
| NANCE | 21 | 155.6 | 3 | ** |
| NEMAHA | 33 | 160.8 | 3 | ** |
| NUCKOLLS | 16 | ▼ 81.3 | 5 | ** |
| OTOE | 71 | 161.8 | 13 | 28.3 |
| PAWNEE | 19 | 146.7 | 3 | ** |
| PERKINS | 16 | 165.4 | 2 | ** |
| PHELPS | 44 | 158.9 | 7 | 24.2 |
| PIERCE | 33 | 147.3 | 5 | ** |
| PLATTE | 133 | 182.2 | 20 | 29.5 |
| POLK | 21 | 114.3 | 7 | 31.1 |
| RED WILLOW | 45 | 130.5 | 12 | 35.7 |
| RICHARDSON | 54 | 167.8 | 15 | 44.4 |
| ROCK | 10 | 174.0 | 2 | ** |
| SALINE | 62 | 170.8 | 5 | ** |
| SARPY | 297 | 166.9 | 32 | 31.7 |
| SAUNDERS | 78 | 151.7 | 12 | 25.6 |
| SCOTTS BLUFF | 184 | 182.8 | 16 | 16.1 |
| SEWARD | 51 | 123.4 | 11 | 26.4 |
| SHERIDAN | 40 | 174.6 | 8 | 33.7 |
| SHERMAN | 25 | 219.0 | 3 | ** |
| SIOUX | 2 | ** | -- | -- |
| STANTON | 22 | 152.4 | 4 | ** |
| THAYER | 49 | 218.0 | 4 | ** |
| THOMAS | 2 | ** | -- | -- |
| THURSTON | 28 | 178.9 | 5 | ** |
| VALLEY | 30 | 175.8 | 5 | ** |
| WASHINGTON | 66 | 152.5 | 9 | 24.4 |
| WAYNE | 30 | 141.5 | 3 | ** |
| WEBSTER | 23 | 151.4 | 2 | ** |
| WHEELER | 6 | 214.2 | 2 | ** |
| YORK | 55 | 139.0 | 9 | 21.5 |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 male population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

TABLE 13: Urinary Bladder Cancer Incidence and Mortality
 Numbers of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 21.3 | NA | 4.4 |
| NEBRASKA | 1,889 | 21.0 | 355 | 3.8 |
| <u>COUNTY</u> | | | | |
| ADAMS | 42 | 23.5 | 8 | 4.5 |
| ANTELOPE | 6 | 12.3 | 2 | ** |
| ARTHUR | 2 | ** | -- | -- |
| BANNER | -- | -- | -- | -- |
| BLAINE | 1 | ** | 1 | ** |
| BOONE | 2 | ** | 1 | ** |
| BOX BUTTE | 21 | 29.2 | 5 | ** |
| BOYD | 4 | ** | 1 | ** |
| BROWN | 5 | ** | 1 | ** |
| BUFFALO | 61 | 31.5 | 4 | ** |
| BURT | 14 | 23.8 | 1 | ** |
| BUTLER | 12 | 19.6 | 1 | ** |
| CASS | 23 | 18.9 | 3 | ** |
| CEDAR | 14 | 22.2 | 1 | ** |
| CHASE | 3 | ** | -- | -- |
| CHERRY | 5 | ** | -- | -- |
| CHEYENNE | 21 | 36.2 | -- | -- |
| CLAY | 16 | 33.5 | 4 | ** |
| COLFAX | 11 | 17.9 | 2 | ** |
| CUMING | 15 | 20.1 | 3 | ** |
| CUSTER | 24 | 26.0 | 4 | ** |
| DAKOTA | 13 | 15.2 | 2 | ** |
| DAWES | 13 | 27.5 | 2 | ** |
| DAWSON | 28 | 21.1 | 6 | 4.7 |
| DEUEL | 2 | ** | -- | -- |
| DIXON | 12 | 28.7 | 2 | ** |
| DODGE | 47 | 19.9 | 10 | 3.8 |
| DOUGLAS | 398 | 19.3 | 86 | 4.2 |
| DUNDY | 5 | ** | 2 | ** |
| FILLMORE | 8 | 17.4 | -- | -- |
| FRANKLIN | 7 | 20.8 | 1 | ** |
| FRONTIER | 2 | ** | -- | -- |
| FURNAS | 10 | 21.1 | 1 | ** |
| GAGE | 26 | 15.4 | 9 | 4.9 |
| GARDEN | 10 | 54.7 | -- | -- |
| GARFIELD | 2 | ** | 1 | ** |
| GOSPER | 6 | 37.0 | -- | -- |
| GRANT | -- | -- | -- | -- |
| GREELEY | 3 | ** | 2 | ** |
| HALL | 80 | 27.9 | 14 | 4.9 |
| HAMILTON | 14 | 24.7 | 1 | ** |
| HARLAN | 8 | 24.8 | 3 | ** |
| HAYES | 1 | ** | -- | -- |
| HITCHCOCK | 5 | ** | -- | -- |
| HOLT | 20 | 21.5 | 6 | 5.7 |
| HOOKER | 2 | ** | -- | -- |
| HOWARD | 9 | 21.1 | 1 | ** |

TABLE 13: Urinary Bladder Cancer Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 16 | 24.0 | 5 | ** |
| JOHNSON | 6 | 17.3 | 3 | ** |
| KEARNEY | 14 | 29.8 | 3 | ** |
| KEITH | 16 | 25.7 | 2 | ** |
| KEYA PAHA | 1 | ** | 1 | ** |
| KIMBALL | 7 | 20.8 | 2 | ** |
| KNOX | 23 | 28.3 | 4 | ** |
| LANCASTER | 221 | 20.9 | 37 | 3.5 |
| LINCOLN | 42 | 21.4 | 9 | 4.6 |
| LOGAN | 1 | ** | 1 | ** |
| LOUP | -- | -- | -- | -- |
| McPHERSON | 1 | ** | -- | -- |
| MADISON | 54 | 27.1 | 13 | 5.7 |
| MERRICK | 16 | 27.6 | 5 | ** |
| MORRILL | 13 | 38.3 | 1 | ** |
| NANCE | 2 | ** | -- | -- |
| NEMAHA | 4 | ** | 1 | ** |
| NUCKOLLS | 10 | 20.3 | 1 | ** |
| OTOE | 21 | 19.6 | 7 | 5.5 |
| PAWNEE | 6 | 19.9 | 2 | ** |
| PERKINS | 6 | 25.8 | 1 | ** |
| PHELPS | 12 | 16.6 | 1 | ** |
| PIERCE | 13 | 21.8 | 4 | ** |
| PLATTE | 24 | 14.4 | 5 | ** |
| POLK | 6 | 11.0 | 1 | ** |
| RED WILLOW | 18 | 21.5 | 2 | ** |
| RICHARDSON | 9 | 13.5 | 2 | ** |
| ROCK | 2 | ** | 1 | ** |
| SALINE | 11 | 14.2 | 2 | ** |
| SARPY | 85 | 22.5 | 13 | 4.3 |
| SAUNDERS | 8 | ▼ 6.7 | 4 | ** |
| SCOTTS BLUFF | 78 | 33.9 | 15 | 6.1 |
| SEWARD | 16 | 16.6 | 4 | ** |
| SHERIDAN | 8 | 19.1 | 1 | ** |
| SHERMAN | 4 | ** | 1 | ** |
| SIOUX | 1 | ** | -- | -- |
| STANTON | 6 | 18.5 | -- | -- |
| THAYER | 10 | 18.8 | -- | -- |
| THOMAS | 2 | ** | -- | -- |
| THURSTON | 2 | ** | 1 | ** |
| VALLEY | 5 | ** | 3 | ** |
| WASHINGTON | 15 | 15.3 | 2 | ** |
| WAYNE | 6 | 10.0 | 1 | ** |
| WEBSTER | 9 | 21.4 | 3 | ** |
| WHEELER | 3 | ** | -- | -- |
| YORK | 23 | 24.9 | -- | -- |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

TABLE 14: Non-Hodgkin Lymphoma Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 19.4 | NA | 8.4 |
| NEBRASKA | 1,736 | 19.6 | 769 | 8.4 |
| <u>COUNTY</u> | | | | |
| ADAMS | 29 | 16.0 | 16 | 8.3 |
| ANTELOPE | 11 | 21.0 | 6 | 10.1 |
| ARTHUR | 2 | ** | 1 | ** |
| BANNER | -- | -- | -- | -- |
| BLAINE | -- | -- | -- | -- |
| BOONE | 11 | 24.5 | 3 | ** |
| BOX BUTTE | 13 | 18.2 | 8 | 11.1 |
| BOYD | 3 | ** | 2 | ** |
| BROWN | 7 | 25.6 | 3 | ** |
| BUFFALO | 31 | 16.0 | 23 | 12.0 |
| BURT | 9 | 15.4 | 8 | 12.0 |
| BUTLER | 10 | 17.2 | 9 | 15.6 |
| CASS | 29 | 23.9 | 13 | 10.7 |
| CEDAR | 10 | 15.4 | 2 | ** |
| CHASE | 5 | ** | 3 | ** |
| CHERRY | 15 | 38.7 | 3 | ** |
| CHEYENNE | 12 | 20.1 | 9 | 14.2 |
| CLAY | 8 | 17.7 | 2 | ** |
| COLFAX | 11 | 17.3 | 4 | ** |
| CUMING | 9 | 13.5 | 2 | ** |
| CUSTER | 19 | 23.2 | 5 | ** |
| DAKOTA | 18 | 21.4 | 5 | ** |
| DAWES | 7 | 14.9 | 3 | ** |
| DAWSON | 23 | 17.3 | 9 | 6.9 |
| DEUEL | 3 | ** | -- | -- |
| DIXON | 12 | 32.7 | 6 | 14.0 |
| DODGE | 41 | 18.5 | 23 | 9.2 |
| DOUGLAS | 402 | 19.1 | 170 | 8.3 |
| DUNDY | 5 | ** | 1 | ** |
| FILLMORE | 9 | 18.9 | 7 | 13.7 |
| FRANKLIN | 5 | ** | 1 | ** |
| FRONTIER | 4 | ** | 1 | ** |
| FURNAS | 11 | 27.4 | 4 | ** |
| GAGE | 29 | 18.2 | 20 | 11.7 |
| GARDEN | -- | -- | -- | -- |
| GARFIELD | 4 | ** | -- | -- |
| GOSPER | 7 | 45.3 | -- | -- |
| GRANT | 1 | ** | -- | -- |
| GREELEY | 6 | 31.0 | 2 | ** |
| HALL | 47 | 16.7 | 18 | 6.3 |
| HAMILTON | 10 | 20.0 | 7 | 13.0 |
| HARLAN | 6 | 20.8 | 7 | 22.0 |
| HAYES | -- | -- | 1 | ** |
| HITCHCOCK | 4 | ** | 4 | ** |
| HOLT | 14 | 16.5 | 3 | ** |
| HOOKER | 2 | ** | -- | -- |
| HOWARD | 11 | 27.3 | 3 | ** |

TABLE 14: Non-Hodgkin Lymphoma Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 17 | 27.7 | 11 | 15.3 |
| JOHNSON | 12 | 38.3 | 4 | ** |
| KEARNEY | 2 | ** | 4 | ** |
| KEITH | 8 | 12.6 | 6 | 9.4 |
| KEYA PAHA | 1 | ** | 2 | ** |
| KIMBALL | 6 | 22.4 | 3 | ** |
| KNOX | 8 | 10.2 | 4 | ** |
| LANCASTER | 225 | 20.9 | 93 | 8.8 |
| LINCOLN | 41 | 21.4 | 10 | 4.8 |
| LOGAN | -- | -- | -- | -- |
| LOUP | 2 | ** | 1 | ** |
| McPHERSON | -- | -- | -- | -- |
| MADISON | 35 | 18.5 | 22 | 11.1 |
| MERRICK | 15 | 29.5 | 5 | ** |
| MORRILL | 10 | 30.5 | 2 | ** |
| NANCE | 3 | ** | 2 | ** |
| NEMAHA | 8 | 14.8 | 4 | ** |
| NUCKOLLS | 13 | 32.6 | 7 | 15.7 |
| OTOE | 17 | 18.1 | 13 | 12.5 |
| PAWNEE | 5 | ** | 6 | 23.8 |
| PERKINS | 3 | ** | 3 | ** |
| PHELPS | 12 | 17.8 | 8 | 12.1 |
| PIERCE | 16 | 33.3 | 6 | 11.0 |
| PLATTE | 30 | 18.2 | 15 | 8.6 |
| POLK | 5 | ** | 3 | ** |
| RED WILLOW | 13 | 18.0 | 4 | ** |
| RICHARDSON | 11 | 18.8 | 5 | ** |
| ROCK | 1 | ** | 1 | ** |
| SALINE | 18 | 21.7 | 7 | 7.2 |
| SARPY | 84 | 18.6 | 22 | 6.1 |
| SAUNDERS | 33 | 29.3 | 14 | 11.8 |
| SCOTTS BLUFF | 41 | 18.3 | 22 | 9.3 |
| SEWARD | 28 | 30.5 | 7 | 7.3 |
| SHERIDAN | 5 | ** | 4 | ** |
| SHERMAN | 8 | 37.3 | 3 | ** |
| SIOUX | 1 | ** | -- | -- |
| STANTON | 3 | ** | 1 | ** |
| THAYER | 14 | 27.4 | 4 | ** |
| THOMAS | -- | -- | -- | -- |
| THURSTON | 5 | ** | 1 | ** |
| VALLEY | 3 | ** | 4 | ** |
| WASHINGTON | 22 | 23.1 | 11 | 11.2 |
| WAYNE | 10 | 21.8 | 1 | ** |
| WEBSTER | 3 | ** | 2 | ** |
| WHEELER | -- | -- | 1 | ** |
| YORK | 14 | 17.0 | 4 | ** |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

TABLE 15: Leukemia Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 12.4 | NA | 7.6 |
| NEBRASKA | 1,140 | 12.7 | 741 | 8.0 |
| <u>COUNTY</u> | | | | |
| ADAMS | 16 | 9.4 | 6 | ▼ 2.9 |
| ANTELOPE | 8 | 12.9 | 3 | ** |
| ARTHUR | -- | -- | -- | -- |
| BANNER | 1 | ** | -- | -- |
| BLAINE | 1 | ** | 1 | ** |
| BOONE | 5 | ** | 3 | ** |
| BOX BUTTE | 7 | 10.8 | 4 | ** |
| BOYD | 3 | ** | 2 | ** |
| BROWN | -- | -- | -- | -- |
| BUFFALO | 23 | 12.2 | 15 | 7.7 |
| BURT | 7 | 12.2 | 7 | 9.6 |
| BUTLER | 10 | 19.2 | 6 | 10.1 |
| CASS | 14 | 11.5 | 7 | 5.7 |
| CEDAR | 8 | 12.9 | 5 | ** |
| CHASE | 3 | ** | 2 | ** |
| CHERRY | 6 | 15.6 | 4 | ** |
| CHEYENNE | 10 | 16.9 | 6 | 9.4 |
| CLAY | 5 | ** | 5 | ** |
| COLFAX | 9 | 14.7 | 8 | 11.3 |
| CUMING | 7 | 9.4 | 5 | ** |
| CUSTER | 7 | 8.1 | 9 | 8.4 |
| DAKOTA | 13 | 13.4 | 7 | 8.0 |
| DAWES | 5 | ** | 1 | ** |
| DAWSON | 18 | 14.0 | 9 | 6.9 |
| DEUEL | 1 | ** | -- | -- |
| DIXON | 9 | 21.9 | 5 | ** |
| DODGE | 34 | 16.1 | 18 | 7.1 |
| DOUGLAS | 266 | 12.6 | 185 | 9.0 |
| DUNDY | 3 | ** | 1 | ** |
| FILLMORE | 6 | 12.1 | 4 | ** |
| FRANKLIN | 4 | ** | 1 | ** |
| FRONTIER | 4 | ** | 1 | ** |
| FURNAS | 4 | ** | 3 | ** |
| GAGE | 17 | 11.0 | 7 | 3.6 |
| GARDEN | 1 | ** | 2 | ** |
| GARFIELD | 4 | ** | 2 | ** |
| GOSPER | -- | -- | -- | -- |
| GRANT | -- | -- | -- | -- |
| GREELEY | 1 | ** | 2 | ** |
| HALL | 34 | 11.9 | 24 | 8.1 |
| HAMILTON | 11 | 19.8 | 10 | 16.3 |
| HARLAN | 3 | ** | 2 | ** |
| HAYES | -- | -- | -- | -- |
| HITCHCOCK | 5 | ** | 4 | ** |
| HOLT | 10 | 12.3 | 5 | ** |
| HOOKER | 2 | ** | -- | -- |
| HOWARD | 10 | 23.1 | 9 | 19.8 |

TABLE 15: Leukemia Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 9 | 13.9 | 3 | ** |
| JOHNSON | 5 | ** | 4 | ** |
| KEARNEY | 2 | ** | 3 | ** |
| KEITH | 5 | ** | 5 | ** |
| KEYA PAHA | -- | -- | -- | -- |
| KIMBALL | 4 | ** | 2 | ** |
| KNOX | 8 | 10.7 | 9 | 9.9 |
| LANCASTER | 147 | 13.6 | 89 | 8.3 |
| LINCOLN | 27 | 13.4 | 10 | 5.0 |
| LOGAN | -- | -- | -- | -- |
| LOUP | -- | -- | -- | -- |
| McPHERSON | 2 | ** | -- | -- |
| MADISON | 30 | 15.5 | 16 | 7.5 |
| MERRICK | 6 | 11.7 | 3 | ** |
| MORRILL | 2 | ** | 2 | ** |
| NANCE | 7 | 23.6 | 5 | ** |
| NEMAHA | 6 | 13.0 | 5 | ** |
| NUCKOLLS | 9 | 20.5 | 7 | 14.7 |
| OTOE | 8 | 7.6 | 5 | ** |
| PAWNEE | 2 | ** | 2 | ** |
| PERKINS | 3 | ** | 4 | ** |
| PHELPS | 6 | 9.3 | 5 | ** |
| PIERCE | 7 | 14.8 | 7 | 12.9 |
| PLATTE | 23 | 13.6 | 20 | 11.4 |
| POLK | 7 | 19.5 | 2 | ** |
| RED WILLOW | 15 | 19.6 | 9 | 10.4 |
| RICHARDSON | 8 | 9.4 | 3 | ** |
| ROCK | 1 | ** | 1 | ** |
| SALINE | 11 | 12.8 | 6 | 6.6 |
| SARPY | 57 | 13.7 | 29 | 7.5 |
| SAUNDERS | 4 | ** | 6 | 5.3 |
| SCOTTS BLUFF | 19 | 8.8 | 17 | 7.3 |
| SEWARD | 17 | 18.7 | 12 | 12.8 |
| SHERIDAN | 3 | ** | 5 | ** |
| SHERMAN | 2 | ** | 2 | ** |
| SIOUX | -- | -- | 1 | ** |
| STANTON | 3 | ** | 3 | ** |
| THAYER | 11 | 19.0 | 5 | ** |
| THOMAS | -- | -- | -- | -- |
| THURSTON | 5 | ** | 4 | ** |
| VALLEY | 4 | ** | 5 | ** |
| WASHINGTON | 15 | 14.7 | 12 | 11.9 |
| WAYNE | 9 | 17.9 | 6 | 9.7 |
| WEBSTER | 5 | ** | 1 | ** |
| WHEELER | 1 | ** | 1 | ** |
| YORK | 10 | 10.7 | 5 | ** |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

▼ county rate significantly lower than the state rate

TABLE 16: Kidney and Renal Pelvis Cancer Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 12.0 | NA | 4.3 |
| NEBRASKA | 1,152 | 13.1 | 418 | 4.6 |
| <u>COUNTY</u> | | | | |
| ADAMS | 31 | 17.5 | 11 | 6.4 |
| ANTELOPE | 5 | ** | 1 | ** |
| ARTHUR | -- | -- | -- | -- |
| BANNER | 1 | ** | -- | -- |
| BLAINE | -- | -- | -- | -- |
| BOONE | 1 | ** | 1 | ** |
| BOX BUTTE | 9 | 14.2 | 4 | ** |
| BOYD | 2 | ** | -- | -- |
| BROWN | 3 | ** | -- | -- |
| BUFFALO | 27 | 14.4 | 15 | 8.0 |
| BURT | 7 | 12.5 | 1 | ** |
| BUTLER | 6 | 12.1 | 1 | ** |
| CASS | 18 | 14.4 | 1 | ** |
| CEDAR | 10 | 15.1 | 2 | ** |
| CHASE | 3 | ** | 3 | ** |
| CHERRY | 6 | 15.7 | 5 | ** |
| CHEYENNE | 6 | 11.1 | 2 | ** |
| CLAY | 4 | ** | 1 | ** |
| COLFAX | 6 | 10.8 | 3 | ** |
| CUMING | 14 | 20.5 | 4 | ** |
| CUSTER | 8 | 9.8 | 3 | ** |
| DAKOTA | 9 | 10.4 | 1 | ** |
| DAWES | 4 | ** | 1 | ** |
| DAWSON | 10 | 8.1 | 7 | 5.5 |
| DEUEL | 1 | ** | 1 | ** |
| DIXON | 3 | ** | -- | -- |
| DODGE | 27 | 12.8 | 6 | 2.4 |
| DOUGLAS | 317 | 15.1 | 115 | 5.5 |
| DUNDY | 1 | ** | 2 | ** |
| FILLMORE | 3 | ** | 2 | ** |
| FRANKLIN | -- | -- | 1 | ** |
| FRONTIER | 4 | ** | 2 | ** |
| FURNAS | 10 | 25.4 | 4 | ** |
| GAGE | 23 | 15.2 | 6 | 3.1 |
| GARDEN | 2 | ** | -- | -- |
| GARFIELD | 1 | ** | -- | -- |
| GOSPER | 1 | ** | 1 | ** |
| GRANT | 1 | ** | -- | -- |
| GREELEY | 4 | ** | 1 | ** |
| HALL | 43 | 15.3 | 11 | 3.7 |
| HAMILTON | 7 | 12.7 | 4 | ** |
| HARLAN | 1 | ** | -- | -- |
| HAYES | 1 | ** | -- | -- |
| HITCHCOCK | 6 | 23.5 | 2 | ** |
| HOLT | 14 | 19.4 | 5 | ** |
| HOOKER | -- | -- | -- | -- |
| HOWARD | 7 | 15.9 | 4 | ** |

TABLE 16: Kidney and Renal Pelvis Cancer Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 3 | ** | 3 | ** |
| JOHNSON | 2 | ** | 1 | ** |
| KEARNEY | 4 | ** | 3 | ** |
| KEITH | 3 | ** | 2 | ** |
| KEYA PAHA | 1 | ** | -- | -- |
| KIMBALL | 5 | ** | 1 | ** |
| KNOX | 8 | 11.9 | 4 | ** |
| LANCASTER | 121 | 11.4 | 43 | 4.1 |
| LINCOLN | 17 | 9.1 | 7 | 3.5 |
| LOGAN | 1 | ** | 1 | ** |
| LOUP | -- | -- | -- | -- |
| McPHERSON | -- | -- | -- | -- |
| MADISON | 20 | 10.6 | 11 | 5.7 |
| MERRICK | 8 | 14.5 | 3 | ** |
| MORRILL | 9 | 26.1 | -- | -- |
| NANCE | 4 | ** | 2 | ** |
| NEMAHA | 3 | ** | 1 | ** |
| NUCKOLLS | 8 | 19.1 | 5 | ** |
| OTOE | 4 | ** | 5 | ** |
| PAWNEE | 4 | ** | 2 | ** |
| PERKINS | 3 | ** | -- | -- |
| PHELPS | 8 | 13.0 | 2 | ** |
| PIERCE | 9 | 18.4 | 2 | ** |
| PLATTE | 20 | 12.2 | 6 | 3.4 |
| POLK | 3 | ** | 3 | ** |
| RED WILLOW | 4 | ** | 1 | ** |
| RICHARDSON | 17 | 26.1 | 4 | ** |
| ROCK | 2 | ** | 1 | ** |
| SALINE | 9 | 11.8 | 4 | ** |
| SARPY | 66 | 15.2 | 21 | 5.1 |
| SAUNDERS | 13 | 11.3 | 5 | ** |
| SCOTTS BLUFF | 30 | 13.0 | 11 | 4.6 |
| SEWARD | 15 | 17.7 | 7 | 7.8 |
| SHERIDAN | 8 | 18.9 | 2 | ** |
| SHERMAN | 3 | ** | 2 | ** |
| SIOUX | -- | -- | -- | -- |
| STANTON | -- | -- | -- | -- |
| THAYER | 4 | ** | 2 | ** |
| THOMAS | -- | -- | -- | -- |
| THURSTON | 9 | 28.4 | 5 | ** |
| VALLEY | 2 | ** | 1 | ** |
| WASHINGTON | 16 | 16.1 | 5 | ** |
| WAYNE | 5 | ** | -- | -- |
| WEBSTER | 6 | 18.5 | 3 | ** |
| WHEELER | 1 | ** | -- | -- |
| YORK | 7 | 8.4 | 3 | ** |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

TABLE 17: Melanoma of the Skin Incidence and Mortality
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| US | NA | 18.0 | NA | 2.7 |
| NEBRASKA | 1,255 | 14.5 | 249 | 2.8 |
| <u>COUNTY</u> | | | | |
| ADAMS | 22 | 13.8 | 11 | 6.7 |
| ANTELOPE | 9 | 18.2 | -- | -- |
| ARTHUR | -- | -- | -- | -- |
| BANNER | -- | -- | -- | -- |
| BLAINE | -- | -- | -- | -- |
| BOONE | 5 | ** | 3 | ** |
| BOX BUTTE | 6 | 8.2 | 4 | ** |
| BOYD | 2 | ** | 1 | ** |
| BROWN | 6 | 21.7 | 1 | ** |
| BUFFALO | 23 | 12.4 | 5 | ** |
| BURT | 1 | ** | -- | -- |
| BUTLER | 7 | 13.6 | -- | -- |
| CASS | 17 | 13.7 | 6 | 5.0 |
| CEDAR | 9 | 16.0 | -- | -- |
| CHASE | 7 | 30.2 | 1 | ** |
| CHERRY | 6 | 17.3 | 2 | ** |
| CHEYENNE | 4 | ** | -- | -- |
| CLAY | 1 | ** | -- | -- |
| COLFAX | 9 | 17.0 | 4 | ** |
| CUMING | 7 | 10.5 | 3 | ** |
| CUSTER | 17 | 22.7 | 2 | ** |
| DAKOTA | 16 | 17.5 | 4 | ** |
| DAWES | 2 | ** | 1 | ** |
| DAWSON | 10 | 7.9 | 2 | ** |
| DEUEL | 1 | ** | -- | -- |
| DIXON | 4 | ** | 5 | ** |
| DODGE | 28 | 15.0 | 5 | ** |
| DOUGLAS | 300 | 13.6 | 49 | 2.3 |
| DUNDY | -- | -- | 1 | ** |
| FILLMORE | 6 | 17.7 | 2 | ** |
| FRANKLIN | -- | -- | -- | -- |
| FRONTIER | 2 | ** | -- | -- |
| FURNAS | 6 | 21.3 | 1 | ** |
| GAGE | 23 | 16.2 | 7 | 5.1 |
| GARDEN | -- | -- | -- | -- |
| GARFIELD | 2 | ** | -- | -- |
| GOSPER | -- | -- | -- | -- |
| GRANT | 3 | ** | 1 | ** |
| GREELEY | 2 | ** | -- | -- |
| HALL | 38 | 13.7 | 8 | 2.7 |
| HAMILTON | 8 | 15.2 | 1 | ** |
| HARLAN | 2 | ** | 1 | ** |
| HAYES | -- | -- | 1 | ** |
| HITCHCOCK | 7 | 34.5 | 2 | ** |
| HOLT | 11 | 14.0 | 3 | ** |
| HOOKER | 1 | ** | -- | -- |
| HOWARD | 5 | ** | -- | -- |

TABLE 17: Melanoma of the Skin Incidence and Mortality
 (Continued)
 Number of Cases, Deaths, and Rates, By County of Residence,
 Nebraska (1998-2002) and US (1997-2001)

| <u>COUNTY</u> | <u>Incidence</u> | | <u>Mortality</u> | |
|---------------|------------------|-------------|------------------|-------------|
| | <u># Cases</u> | <u>Rate</u> | <u># Deaths</u> | <u>Rate</u> |
| JEFFERSON | 11 | 20.4 | 5 | ** |
| JOHNSON | 3 | ** | -- | -- |
| KEARNEY | 3 | ** | 1 | ** |
| KEITH | 10 | 20.7 | 4 | ** |
| KEYA PAHA | -- | -- | -- | -- |
| KIMBALL | 3 | ** | 2 | ** |
| KNOX | 6 | 9.7 | -- | -- |
| LANCASTER | 204 | 17.7 | 31 | 2.9 |
| LINCOLN | 32 | 17.8 | 4 | ** |
| LOGAN | -- | -- | -- | -- |
| LOUP | -- | -- | 1 | ** |
| McPHERSON | 2 | ** | -- | -- |
| MADISON | 23 | 13.1 | 5 | ** |
| MERRICK | 8 | 18.6 | 1 | ** |
| MORRILL | 2 | ** | 2 | ** |
| NANCE | 3 | ** | 2 | ** |
| NEMAHA | 11 | 26.1 | 1 | ** |
| NUCKOLLS | 5 | ** | 1 | ** |
| OTOE | 14 | 17.7 | 5 | ** |
| PAWNEE | 2 | ** | -- | -- |
| PERKINS | 3 | ** | -- | -- |
| PHELPS | 8 | 15.7 | 4 | ** |
| PIERCE | 1 | ** | 2 | ** |
| PLATTE | 17 | 10.4 | 2 | ** |
| POLK | 5 | ** | 1 | ** |
| RED WILLOW | 11 | 15.6 | 2 | ** |
| RICHARDSON | 12 | 22.8 | 2 | ** |
| ROCK | 1 | ** | -- | -- |
| SALINE | 12 | 17.1 | 3 | ** |
| SARPY | 96 | 19.6 | 14 | 3.8 |
| SAUNDERS | 13 | 12.4 | -- | -- |
| SCOTTS BLUFF | 37 | 16.7 | 7 | 3.0 |
| SEWARD | 14 | 17.6 | 3 | ** |
| SHERIDAN | 5 | ** | -- | -- |
| SHERMAN | 2 | ** | -- | -- |
| SIOUX | -- | -- | -- | -- |
| STANTON | 1 | ** | -- | -- |
| THAYER | 3 | ** | -- | -- |
| THOMAS | -- | -- | -- | -- |
| THURSTON | -- | -- | 1 | ** |
| VALLEY | 2 | ** | -- | -- |
| WASHINGTON | 16 | 17.0 | 1 | ** |
| WAYNE | 2 | ** | 1 | ** |
| WEBSTER | 5 | ** | -- | -- |
| WHEELER | -- | -- | -- | -- |
| YORK | 12 | 16.1 | 4 | ** |

NA – not available

**Rate not shown if based on five or fewer events.

Rates are expressed per 100,000 population and are age-adjusted to the 2000 U.S. population

TABLE 18: Cancer Incidence (Invasive Cases Only)
 Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
 (local public health department areas of coverage*), 1998-2002

| Central | | | East Central | | |
|--|---------------|-------------|--|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 1,869 | 482.6 | All | 1,408 | 479.2 |
| Prostate | 316 | 180.7 | Breast | 244 | 83.9 |
| Breast | 265 | 69.3 | Prostate | 242 | 184.3 |
| Lung & Bronchus | 245 | 62.9 | Colon & Rectum (Colorectal) | 209 | 68.6 |
| Colon & Rectum (Colorectal) | 218 | 54.8 | Lung & Bronchus | 161 | 54.6 |
| Urinary Bladder | 110 | 27.5 | Non-Hodgkin Lymphoma | 55 | 18.6 |
| Non-Hodgkins Lymphoma | 72 | 18.9 | Leukemia | 44 | 14.4 |
| Uterine Corpus & Unspecified (Endometrium) | 63 | 31.3 | Uterine Corpus & Unspecified (Endometrium) | 40 | 26.0 |
| Kidney & Renal Pelvis | 58 | 14.9 | Urinary Bladder | 39 | ▼ 12.7 |
| Melanoma of the Skin | 54 | 14.3 | Oral Cavity & Pharynx | 37 | 13.2 |
| Leukemia | 51 | 13.1 | Ovary | 36 | 24.7 |

| Dakota County | | | Elkhorn Logan Valley | | |
|--|---------------|-------------|--|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 411 | 481.0 | All | 1,613 | 462.0 |
| Lung & Bronchus | 72 | 86.1 | Prostate | 278 | 179.8 |
| Breast | 61 | 70.5 | Breast | 245 | 72.2 |
| Colon & Rectum (Colorectal) | 59 | 70.2 | Colon & Rectum (Colorectal) | 208 | 57.8 |
| Prostate | 34 | ▼ 91.0 | Lung & Bronchus | 208 | 59.8 |
| Non-Hodgkin Lymphoma | 18 | 21.4 | Urinary Bladder | 89 | 24.0 |
| Melanoma of the Skin | 16 | 17.5 | Non-Hodgkin Lymphoma | 56 | 16.1 |
| Uterine Corpus & Unspecified (Endometrium) | 14 | 29.3 | Uterine Corpus & Unspecified (Endometrium) | 52 | 29.2 |
| Urinary Bladder | 13 | 15.2 | Leukemia | 47 | 13.1 |
| Leukemia | 13 | 13.4 | Kidney & Renal Pelvis | 41 | 11.8 |
| Brain & Other CNS | 11 | 12.7 | Pancreas | 34 | 9.2 |

| Douglas County | | | Four Corners | | |
|--|---------------|-------------|--|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 10,210 | 488.5 | All | 1,238 | 445.3 |
| Breast | 1,657 | ▲ 78.4 | Breast | 198 | 71.1 |
| Lung & Bronchus | 1,582 | ▲ 77.1 | Colon & Rectum (Colorectal) | 184 | 61.4 |
| Prostate | 1,318 | ▼ 151.0 | Prostate | 173 | 136.9 |
| Colon & Rectum (Colorectal) | 1,251 | 60.7 | Lung & Bronchus | 134 | ▼ 46.8 |
| Non-Hodgkin Lymphoma | 402 | 19.1 | Urinary Bladder | 57 | 19.2 |
| Urinary Bladder | 398 | 19.3 | Non-Hodgkin Lymphoma | 57 | 20.7 |
| Kidney & Renal Pelvis | 317 | 15.1 | Uterine Corpus & Unspecified (Endometrium) | 45 | 33.3 |
| Melanoma of the Skin | 300 | 13.6 | Leukemia | 44 | 16.0 |
| Uterine Corpus & Unspecified (Endometrium) | 277 | 24.0 | Melanoma of the Skin | 38 | 15.7 |
| Leukemia | 266 | 12.6 | Kidney & Renal Pelvis | 31 | 12.3 |

TABLE 18: Cancer Incidence (Invasive Cases Only)

(Continued)

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Lincoln Lancaster County | | | Northeast Nebraska | | |
|--|---------------|-------------|--|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 5,215 | 483.0 | All | 818 | 437.0 |
| Breast | 861 | 79.1 | Prostate | 138 | 162.0 |
| Prostate | 727 | 160.9 | Colon & Rectum (Colorectal) | 122 | 60.6 |
| Lung & Bronchus | 648 | 61.6 | Breast | 104 | 56.0 |
| Colon & Rectum (Colorectal) | 634 | 59.3 | Lung & Bronchus | 91 | 48.4 |
| Non-Hodgkin Lymphoma | 225 | 20.9 | Non-Hodgkin Lymphoma | 37 | 20.5 |
| Urinary Bladder | 221 | 20.9 | Urinary Bladder | 34 | 17.1 |
| Melanoma of the Skin | 204 | 17.7 | Leukemia | 31 | 16.0 |
| Uterine Corpus & Unspecified (Endometrium) | 197 | 33.5 | Uterine Corpus & Unspecified (Endometrium) | 29 | 33.4 |
| Leukemia | 147 | 13.6 | Kidney & Renal Pelvis | 27 | 15.1 |
| Kidney & Renal Pelvis | 121 | 11.4 | Multiple Myeloma | 21 | 10.6 |

| Loup Basin | | | Panhandle | | |
|--|---------------|-------------|--|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 1,053 | 444.5 | All | 1,523 | 460.0 |
| Prostate | 226 | 208.6 | Prostate | 311 | 202.5 |
| Colon & Rectum (Colorectal) | 135 | 53.4 | Breast | 207 | 64.9 |
| Breast | 124 | 54.3 | Colon & Rectum (Colorectal) | 190 | 54.6 |
| Lung & Bronchus | 118 | 48.1 | Lung & Bronchus | 183 | 53.2 |
| Non-Hodgkin Lymphoma | 53 | 23.8 | Urinary Bladder | 96 | 28.2 |
| Urinary Bladder | 51 | 19.9 | Non-Hodgkin Lymphoma | 57 | 17.2 |
| Uterine Corpus & Unspecified (Endometrium) | 37 | 28.3 | Kidney & Renal Pelvis | 45 | 14.1 |
| Melanoma of the Skin | 30 | 13.9 | Uterine Corpus & Unspecified (Endometrium) | 42 | 24.2 |
| Leukemia | 30 | 12.2 | Oral Cavity & Pharynx | 37 | 11.7 |
| Kidney & Renal Pelvis | 26 | 10.5 | Leukemia | 34 | 10.6 |

| North Central | | | Public Health Solutions | | |
|--|---------------|-------------|--|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 1,554 | 435.7 | All | 1,732 | 441.8 |
| Prostate | 286 | 172.1 | Breast | 276 | 73.2 |
| Breast | 220 | 62.9 | Prostate | 269 | 153.5 |
| Colon & Rectum (Colorectal) | 215 | 59.2 | Colon & Rectum (Colorectal) | 240 | 57.5 |
| Lung & Bronchus | 168 | ▼ 45.2 | Lung & Bronchus | 182 | ▼ 44.7 |
| Urinary Bladder | 79 | 19.8 | Non-Hodgkin Lymphoma | 87 | 21.5 |
| Non-Hodgkin Lymphoma | 76 | 21.1 | Urinary Bladder | 71 | 17.1 |
| Uterine Corpus & Unspecified (Endometrium) | 51 | 26.8 | Uterine Corpus & Unspecified (Endometrium) | 58 | 27.8 |
| Kidney & Renal Pelvis | 50 | 14.7 | Melanoma of the Skin | 55 | 16.3 |
| Leukemia | 43 | 11.3 | Leukemia | 54 | 13.1 |
| Melanoma of the Skin | 42 | 12.5 | Kidney & Renal Pelvis | 42 | 11.3 |

TABLE 18: Cancer Incidence (Invasive Cases Only)

(Continued)

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Sarpy Cass | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 2,647 | 484.6 |
| Breast | 429 | 75.9 |
| Prostate | 376 | 158.3 |
| Lung & Bronchus | 354 | 67.8 |
| Colon & Rectum (Colorectal) | 280 | 56.8 |
| Melanoma of the Skin | 113 | 18.1 |
| Non-Hodgkin Lymphoma | 113 | 20.0 |
| Urinary Bladder | 108 | 21.5 |
| Kidney & Renal Pelvis | 84 | 14.9 |
| Uterine Corpus & Unspecified (Endometrium) | 74 | 24.6 |
| Leukemia | 71 | 12.6 |

| Southeast | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 1,315 | 475.0 |
| Colon & Rectum (Colorectal) | 211 | 69.3 |
| Breast | 208 | 75.5 |
| Prostate | 202 | 164.4 |
| Lung & Bronchus | 159 | 56.3 |
| Non-Hodgkin Lymphoma | 53 | 20.1 |
| Urinary Bladder | 46 | 15.7 |
| Melanoma of the Skin | 42 | 18.6 |
| Uterine Corpus & Unspecified (Endometrium) | 39 | 26.5 |
| Pancreas | 31 | 10.7 |
| Kidney & Renal Pelvis | 30 | 11.5 |

| Scotts Bluff County | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 1,038 | 458.5 |
| Prostate | 184 | 182.8 |
| Breast | 139 | 62.2 |
| Lung & Bronchus | 132 | 57.7 |
| Colon & Rectum (Colorectal) | 111 | 46.3 |
| Urinary Bladder | 78 | 33.9 |
| Non-Hodgkin Lymphoma | 41 | 18.3 |
| Melanoma of the Skin | 37 | 16.7 |
| Uterine Corpus & Unspecified (Endometrium) | 34 | 30.4 |
| Oral Cavity & Pharynx | 30 | 13.0 |
| Kidney & Renal Pelvis | 30 | 13.0 |

| Southwest Nebraska | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 1,013 | 433.7 |
| Prostate | 153 | 142.1 |
| Breast | 133 | 60.4 |
| Colon & Rectum (Colorectal) | 126 | 50.9 |
| Lung & Bronchus | 117 | 48.2 |
| Urinary Bladder | 50 | 19.9 |
| Non-Hodgkin Lymphoma | 45 | 19.0 |
| Leukemia | 37 | 15.4 |
| Melanoma of the Skin | 36 | 17.9 |
| Uterine Corpus & Unspecified (Endometrium) | 35 | 28.6 |
| Kidney & Renal Pelvis | 32 | 12.5 |

| South Heartland | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 1,331 | 447.2 |
| Lung & Bronchus | 193 | 63.8 |
| Breast | 187 | 63.8 |
| Prostate | 182 | 137.7 |
| Colon & Rectum (Colorectal) | 171 | 54.7 |
| Urinary Bladder | 77 | 24.7 |
| Non-Hodgkin Lymphoma | 53 | 17.6 |
| Kidney & Renal Pelvis | 49 | 16.6 |
| Uterine Corpus & Unspecified (Endometrium) | 42 | 27.7 |
| Oral Cavity & Pharynx | 37 | 12.8 |
| Pancreas | 37 | 12.0 |

| Three Rivers | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 2,015 | 467.4 |
| Prostate | 335 | 173.8 |
| Breast | 310 | 73.4 |
| Colon & Rectum (Colorectal) | 301 | 67.4 |
| Lung & Bronchus | 258 | 58.9 |
| Non-Hodgkin Lymphoma | 96 | 22.1 |
| Urinary Bladder | 70 | 15.3 |
| Melanoma of the Skin | 57 | 14.7 |
| Kidney & Renal Pelvis | 56 | 13.0 |
| Uterine Corpus & Unspecified (Endometrium) | 55 | 24.5 |
| Leukemia | 53 | 12.2 |

TABLE 18: Cancer Incidence (Invasive Cases Only)

(Continued)

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Two Rivers | | | West Central | | |
|---|---------------|-------------|---|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 2,170 | 440.6 | All | 1,321 | 468.5 |
| Prostate | 378 | 173.8 | Breast | 196 | 70.4 |
| Breast | 338 | 69.4 | Prostate | 192 | 146.7 |
| Lung & Bronchus | 273 | 55.8 | Lung & Bronchus | 181 | 62.7 |
| Colon & Rectum (Colorectal) | 266 | 52.5 | Colon & Rectum (Colorectal) | 164 | 55.8 |
| Urinary Bladder | 136 | 26.2 | Urinary Bladder | 66 | 23.2 |
| Non-Hodgkin Lymphoma | 86 | 17.0 | Non-Hodgkin Lymphoma | 54 | 19.4 |
| Oral Cavity & Pharynx | 57 | 11.9 | Melanoma of the Skin | 48 | 19.0 |
| Leukemia | 56 | 11.6 | Uterine Corpus & Unspecified (Endometrium) | 41 | 28.2 |
| Pancreas | 55 | 10.7 | Leukemia | 36 | 12.4 |
| Uterine Corpus & Unspecified (Endometrium) | 53 | 20.0 | Oral Cavity & Pharynx | 25 | 8.7 |

* Area covered by each health department is shown on page 70.

- ▼ local rate significantly lower than the state rate
- ▲ local rate significantly higher than the state rate

Excluding gender-specific sites, all rates are expressed per 100,000 population, and are age-adjusted to the 2000 U.S. population.

Rates for gender-specific sites (prostate, endometrium, ovary) are expressed per 100,000 male or female population, and are age-adjusted to the 2000 U.S. population.

TABLE 19: Cancer Mortality

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Central | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 709 | 176.8 |
| Lung & Bronchus | 193 | 49.2 |
| Colon & Rectum (Colorectal) | 91 | 22.1 |
| Prostate | 52 | 31.5 |
| Breast | 37 | 9.2 |
| Leukemia | 37 | 8.9 |
| Pancreas | 33 | 8.0 |
| Non-Hodgkin Lymphoma | 30 | 7.6 |
| Ovary | 22 | 10.1 |
| Urinary Bladder | 20 | 4.9 |
| Brain & Other CNS | 18 | 4.9 |

| East Central | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 548 | 175.8 |
| Lung & Bronchus | 125 | 41.9 |
| Colon & Rectum (Colorectal) | 79 | 24.8 |
| Breast | 39 | 12.4 |
| Prostate | 36 | 28.8 |
| Leukemia | 36 | 11.1 |
| Pancreas | 25 | 7.7 |
| Non-Hodgkin Lymphoma | 24 | 7.4 |
| Ovary | 16 | 9.5 |
| Brain & Other CNS | 15 | 5.3 |
| Esophagus | 13 | 4.1 |

| Dakota County | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 180 | 215.8 |
| Lung & Bronchus | 59 | 71.7 |
| Colon & Rectum (Colorectal) | 24 | 29.0 |
| Breast | 13 | 15.7 |
| Pancreas | 10 | 12.0 |
| Prostate | 9 | 31.3 |
| Leukemia | 7 | 8.0 |
| Brain & Other CNS | 6 | 6.7 |
| Ovary | 5 | ** |
| Non-Hodgkin Lymphoma | 5 | ** |
| Melanoma of the Skin | 4 | ** |

| Elkhorn Logan Valley | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 655 | 177.7 |
| Lung & Bronchus | 179 | 51.0 |
| Colon & Rectum (Colorectal) | 66 | 17.8 |
| Breast | 43 | 12.0 |
| Pancreas | 41 | 11.0 |
| Prostate | 39 | 25.0 |
| Non-Hodgkin Lymphoma | 33 | 8.9 |
| Leukemia | 31 | 7.9 |
| Multiple Myeloma | 19 | 4.9 |
| Urinary Bladder | 17 | 3.9 |
| Ovary | 16 | 8.6 |

| Douglas County | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 4,255 | ▲ 206.7 |
| Lung & Bronchus | 1,249 | ▲ 61.0 |
| Colon & Rectum (Colorectal) | 462 | 22.5 |
| Breast | 342 | 16.4 |
| Pancreas | 231 | 11.3 |
| Prostate | 207 | 28.4 |
| Leukemia | 185 | 9.0 |
| Non-Hodgkin Lymphoma | 170 | 8.3 |
| Kidney & Renal Pelvis | 115 | 5.5 |
| Esophagus | 103 | 5.0 |
| Brain & Other CNS | 97 | 4.6 |

| Four Corners | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 507 | 170.6 |
| Lung & Bronchus | 112 | 37.8 |
| Colon & Rectum (Colorectal) | 76 | 24.7 |
| Prostate | 35 | 26.5 |
| Breast | 29 | 9.4 |
| Pancreas | 27 | 9.1 |
| Leukemia | 25 | 8.9 |
| Non-Hodgkin Lymphoma | 23 | 7.9 |
| Ovary | 22 | 13.1 |
| Brain & Other CNS | 17 | 6.5 |
| Kidney & Renal Pelvis | 14 | 5.0 |

TABLE 19: Cancer Mortality

(Continued)

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Lincoln Lancaster County | | |
|---------------------------------|---------------|-------------|
| | Number | Rate |
| All | 2,022 | 190.2 |
| Lung & Bronchus | 545 | 51.8 |
| Colon & Rectum (Colorectal) | 227 | 21.3 |
| Breast | 162 | 15.0 |
| Prostate | 110 | 29.3 |
| Pancreas | 96 | 9.1 |
| Non-Hodgkin Lymphoma | 93 | 8.8 |
| Leukemia | 89 | 8.3 |
| Brain & Other CNS | 65 | 6.1 |
| Ovary | 55 | 9.0 |
| Kidney & Renal Pelvis | 43 | 4.1 |

| Northeast Nebraska | | |
|--|---------------|-------------|
| | Number | Rate |
| All | 309 | ▼ 153.5 |
| Lung & Bronchus | 68 | ▼ 35.0 |
| Colon & Rectum (Colorectal) | 39 | 19.2 |
| Prostate | 23 | 26.8 |
| Leukemia | 20 | 9.6 |
| Pancreas | 15 | 6.6 |
| Breast | 15 | ▼ 7.0 |
| Multiple Myeloma | 15 | 6.9 |
| Non-Hodgkin Lymphoma | 10 | 5.0 |
| Stomach | 9 | 4.2 |
| Uterine Corpus & Unspecified (Endometrium) | 9 | 7.1 |

| Loup Basin | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 419 | ▼ 158.4 |
| Lung & Bronchus | 91 | ▼ 35.7 |
| Colon & Rectum (Colorectal) | 50 | 19.6 |
| Breast | 35 | 14.1 |
| Prostate | 35 | 29.7 |
| Leukemia | 31 | 11.5 |
| Ovary | 21 | 14.4 |
| Non-Hodgkin Lymphoma | 19 | 7.5 |
| Pancreas | 14 | ▼ 4.7 |
| Urinary Bladder | 13 | 4.4 |
| Kidney & Renal Pelvis | 11 | 4.3 |

| Panhandle | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 625 | 177.9 |
| Lung & Bronchus | 165 | 47.1 |
| Colon & Rectum (Colorectal) | 65 | 17.7 |
| Prostate | 43 | 28.8 |
| Breast | 42 | 12.4 |
| Pancreas | 30 | 8.5 |
| Non-Hodgkin Lymphoma | 29 | 8.2 |
| Leukemia | 23 | 6.2 |
| Esophagus | 15 | 4.6 |
| Stomach | 15 | 4.1 |
| Ovary | 13 | 7.2 |

| North Central | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 654 | 169.9 |
| Lung & Bronchus | 142 | ▼ 36.7 |
| Colon & Rectum (Colorectal) | 93 | 23.6 |
| Breast | 43 | 12.2 |
| Prostate | 41 | 23.2 |
| Pancreas | 37 | 9.4 |
| Leukemia | 31 | 7.7 |
| Non-Hodgkin Lymphoma | 30 | 7.3 |
| Brain & Other CNS | 26 | 8.1 |
| Urinary Bladder | 20 | 4.3 |
| Kidney & Renal Pelvis | 18 | 4.8 |

| Public Health Solutions | | |
|--------------------------------|---------------|-------------|
| | Number | Rate |
| All | 755 | 175.0 |
| Lung & Bronchus | 172 | 41.6 |
| Colon & Rectum (Colorectal) | 91 | 19.8 |
| Breast | 56 | 13.2 |
| Non-Hodgkin Lymphoma | 49 | 11.0 |
| Pancreas | 47 | 11.0 |
| Prostate | 43 | 22.8 |
| Leukemia | 25 | 5.2 |
| Brain & Other CNS | 24 | 5.9 |
| Ovary | 22 | 10.1 |
| Esophagus | 21 | 4.9 |

TABLE 19: Cancer Mortality

(Continued)

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Sarpy Cass | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 917 | 184.1 |
| Lung & Bronchus | 273 | 53.3 |
| Colon & Rectum (Colorectal) | 99 | 21.3 |
| Breast | 69 | 13.5 |
| Pancreas | 51 | 10.2 |
| Prostate | 41 | 28.6 |
| Leukemia | 36 | 6.8 |
| Non-Hodgkin Lymphoma | 35 | 7.6 |
| Brain & Other CNS | 33 | 5.9 |
| Ovary | 28 | 10.1 |
| Multiple Myeloma | 24 | 4.9 |

| Southeast | | |
|--------------------------------|---------------|-------------|
| | Number | Rate |
| All | 579 | 196.3 |
| Lung & Bronchus | 136 | 47.4 |
| Colon & Rectum (Colorectal) | 79 | 24.5 |
| Prostate | 39 | 29.8 |
| Breast | 38 | 12.7 |
| Pancreas | 36 | 12.8 |
| Non-Hodgkin Lymphoma | 32 | 10.7 |
| Leukemia | 19 | 6.8 |
| Brain & Other CNS | 17 | 6.0 |
| Urinary Bladder | 15 | 4.8 |
| Liver & Intrahepatic Bile Duct | 13 | 4.9 |

| Scotts Bluff County | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 416 | 175.4 |
| Lung & Bronchus | 110 | 46.7 |
| Colon & Rectum (Colorectal) | 50 | 20.2 |
| Breast | 26 | 11.4 |
| Non-Hodgkin Lymphoma | 22 | 9.3 |
| Pancreas | 19 | 7.8 |
| Leukemia | 17 | 7.3 |
| Prostate | 16 | 16.1 |
| Urinary Bladder | 15 | 6.1 |
| Stomach | 12 | 5.0 |
| Brain & Other CNS | 12 | 5.4 |

| Southwest Nebraska | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 451 | 179.9 |
| Lung & Bronchus | 100 | 41.0 |
| Colon & Rectum (Colorectal) | 47 | 18.4 |
| Prostate | 39 | 36.0 |
| Breast | 36 | 14.6 |
| Leukemia | 24 | 8.5 |
| Pancreas | 23 | 8.8 |
| Non-Hodgkin Lymphoma | 21 | 8.1 |
| Kidney & Renal Pelvis | 14 | 5.9 |
| Esophagus | 11 | 4.5 |
| Brain & Other CNS | 11 | 5.5 |

| South Heartland | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 573 | 179.6 |
| Lung & Bronchus | 153 | 49.2 |
| Colon & Rectum (Colorectal) | 80 | 23.7 |
| Pancreas | 37 | 11.3 |
| Prostate | 35 | 26.1 |
| Breast | 34 | 11.4 |
| Non-Hodgkin Lymphoma | 27 | 8.2 |
| Kidney & Renal Pelvis | 20 | 6.9 |
| Ovary | 19 | 9.5 |
| Leukemia | 19 | 5.6 |
| Urinary Bladder | 16 | 5.1 |

| Three Rivers | | |
|-----------------------------|---------------|-------------|
| | Number | Rate |
| All | 825 | 182.1 |
| Lung & Bronchus | 209 | 47.2 |
| Colon & Rectum (Colorectal) | 108 | 23.2 |
| Breast | 71 | 15.8 |
| Pancreas | 51 | 11.3 |
| Non-Hodgkin Lymphoma | 48 | 10.3 |
| Prostate | 41 | 23.2 |
| Leukemia | 36 | 7.6 |
| Ovary | 23 | 9.2 |
| Esophagus | 22 | 4.9 |
| Brain & Other CNS | 22 | 5.2 |

TABLE 19: Cancer Mortality

(Continued)

Number of Cases and Rates, All Sites and Top Ten Sites, by Place of Residence
(local public health department areas of coverage*), 1998-2002

| Two Rivers | | | West Central | | |
|-----------------------------|---------------|-------------|---|---------------|-------------|
| | Number | Rate | | Number | Rate |
| All | 926 | 180.5 | All | 560 | 191.2 |
| Lung & Bronchus | 244 | 49.2 | Lung & Bronchus | 147 | 50.5 |
| Colon & Rectum (Colorectal) | 116 | 21.9 | Colon & Rectum (Colorectal) | 56 | 18.8 |
| Breast | 70 | 13.5 | Breast | 50 | 17.4 |
| Prostate | 55 | 25.2 | Prostate | 35 | 29.6 |
| Non-Hodgkin Lymphoma | 52 | 10.2 | Pancreas | 30 | 10.0 |
| Pancreas | 47 | 8.9 | Non-Hodgkin Lymphoma | 17 | 5.7 |
| Leukemia | 35 | 6.6 | Uterine Corpus & Unspecified (Endometrium) | 15 | 10.0 |
| Kidney & Renal Pelvis | 29 | 5.8 | Leukemia | 15 | 5.2 |
| Esophagus | 28 | 5.6 | Multiple Myeloma | 14 | 4.8 |
| Ovary | 27 | 10.0 | Brain & Other CNS | 13 | 4.7 |

* Area covered by each health department is shown on page 70.

**Rate not shown if based on five or fewer events.

- ▼ local rate significantly lower than the state rate
- ▲ local rate significantly higher than the state rate

Excluding gender-specific sites, all rates are expressed per 100,000 population, and are age-adjusted to the 2000 U.S. population.

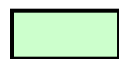
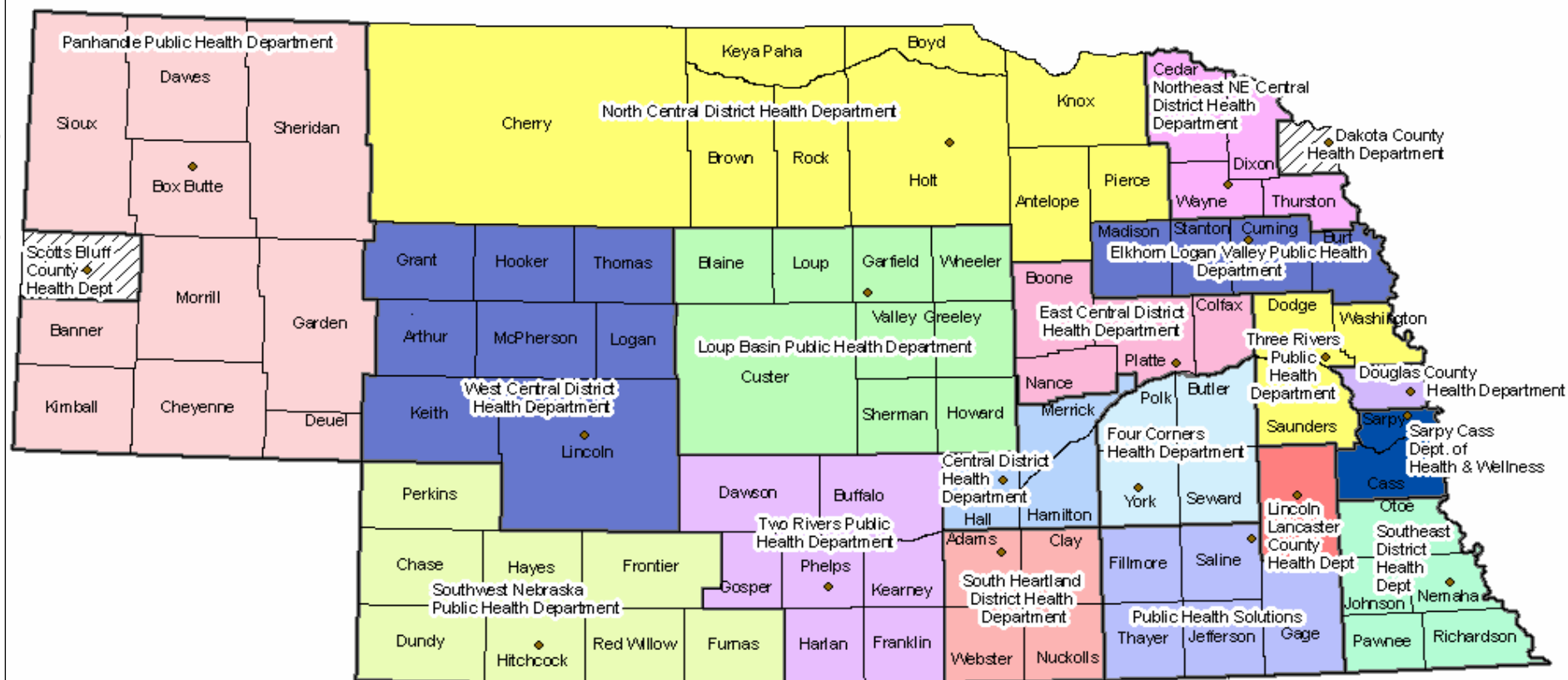
Rates for gender-specific sites (prostate, endometrium, ovary) are expressed per 100,000 male or female population, and are age-adjusted to the 2000 U.S. population.

Local Public Health Department Definitions/Areas of Coverage

| <u>#</u> | <u>Health Department</u> | <u>County Name</u> |
|----------|--------------------------|--|
| 1 | Central | Hall, Hamilton, Merrick |
| 2 | Dakota County | Dakota |
| 3 | Douglas County | Douglas |
| 4 | East Central | Boone, Colfax, Nance, Platte |
| 5 | Elkhorn Logan Valley | Burt, Cuming, Madison, Stanton |
| 6 | Four Corners | Butler, Polk, Seward, York |
| 7 | Lincoln-Lancaster County | Lancaster |
| 8 | Loup Basin | Blaine, Custer, Garfield, Greeley, Howard, Loup, Sherman, Valley, Wheeler |
| 9 | North Central | Antelope, Boyd, Brown, Cherry, Holt, Keya Paha, Knox, Pierce, Rock |
| 10 | Northeast Nebraska | Cedar, Dixon, Thurston, Wayne |
| 11 | Panhandle | Banner, Box Butte, Cheyenne, Dawes, Deuel, Garden, Kimball, Morrill, Sheridan, Sioux |
| 12 | Public Health Solution | Fillmore, Gage, Jefferson, Saline, Thayer |
| 13 | Sarpy Cass | Cass, Sarpy |
| 14 | Scotts Bluff County | Scotts Bluff |
| 15 | South Heartland | Adams, Clay, Nuckolls, Webster |
| 16 | Southeast | Johnson, Nemaha, Otoe, Pawnee, Richardson |
| 17 | Southwest Nebraska | Chase, Dundy, Frontier, Furnas, Hayes, Hitchcock, Perkins, Red Willow, |
| 18 | Three Rivers | Dodge, Saunders, Washington |
| 19 | Two Rivers | Buffalo, Dawson, Franklin, Gosper, Harlan, Kearney, Phelps |
| 20 | West Central | Arthur, Grant, Hooker, Keith, Lincoln, Logan, McPherson, Thomas |

Nebraska Local Public Health Departments

Last Updated: October 2004



Color-coded areas represent Local Public Health Departments eligible under the Nebraska Health Care Funding Act



Counties covered by Local Health Departments but do not qualify for LB 692 funding

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Participants in the Nebraska Cancer Registry

(City--Facility)

Ainsworth--Brown County Hospital
 Albion--Boone County Health Center
 Alliance--Box Butte General Hospital
 Alma--Harlan County Health System
 Atkinson--West Holt Memorial Hospital, Inc.
 Auburn--Nemaha County Hospital
 Aurora--Memorial Hospital
 Bassett--Rock County Hospital
 Beatrice--Beatrice Community Hosp. & Hlth. Ctr., Inc.
 Benkelman--Dundy County Hospital
 Blair--Memorial Community Hospital
 Bridgeport--Morrill County Community Hospital
 Broken Bow--Jennie Melham Memorial Medical Ctr.
 Callaway--Callaway District Hospital
 Cambridge--Tri Valley Health System
 Central City--Litzenberg Memorial County Hospital
 Chadron--Chadron Community Hosp. & Hlth. Svcs.
 Columbus--Columbus Community Hospital, Inc.
 Cozad--Cozad Community Hospital
 Creighton--Creighton Area Health Services
 Crete--Crete Area Medical Center
 David City--Butler County Health Care Center
 Fairbury--Jefferson Community Health Center, Inc.
 Falls City--Community Medical Center, Inc.
 Franklin--Franklin County Memorial Hospital
 Fremont--Fremont Area Medical Center
 Friend--Warren Memorial Hospital
 Geneva--Fillmore County Hospital
 Genoa--Genoa Community Hospital/LTC
 Gordon--Gordon Memorial Hospital District
 Gothenburg--Gothenburg Memorial Hospital
 Grand Island--St. Francis Medical Center
 Grant--Perkins County Health Services
 Hastings--Mary Lanning Memorial Hospital
 Hebron--Thayer County Health Services
 Henderson--Henderson Health Care Services
 Holdrege--Phelps Memorial Health Center
 Imperial--Chase County Community Hospital
 Kearney--Good Samaritan Hospital
 Kearney--Good Samaritan Hospital Pathology
 Kimball--Kimball County Hospital
 Lexington--Tri-County Area Hospital District
 Lincoln--Bryan-LGH Medical Center East & West
 Lincoln--Saint Elizabeth Regional Medical Center
 Lincoln--Pathology Medical Services
 Lincoln--Williamsburg Radiation Center
 Lynch--Niobrara Valley Hospital Corp.
 McCook--Community Hospital
 Minden--Kearney County Health Services
 Nebraska City--St. Mary's Hospital
 Neligh--Antelope Memorial Hospital
 Norfolk--Faith Regional Health Services East & West
 North Platte--Great Plains Regional Medical Center

North Platte--Pathology Services
 Oakland--Oakland Memorial Hospital
 Offutt AFB--Ehrling Berquist Hospital
 Ogallala--Ogallala Community Hospital
 Omaha--Alegent Health - Bergan Mercy Medical Ctr.
 Omaha--Alegent Health - Immanuel Medical Center
 Omaha--Children's Hospital
 Omaha--Methodist Hospital Pathology Center
 Omaha--Nebraska Medical Center
 Omaha--The Nebraska Methodist Hospital
 Omaha--St. Joseph Hospital
 Omaha--Dept. of Veteran's Affairs Medical Center
 Omaha--Bergan Mercy Medical Ctr. Pathology
 Omaha--Bishop Clarkson Hospital Pathology
 Omaha--Creighton Pathology Associates
 Omaha--Nichols Institute
 Omaha--Physicians Lab
 O'Neill--Avera St. Anthony's Hospital
 Ord--Valley County Hospital
 Osceola--Annie Jeffrey Memorial County Hlth. Ctr.
 Oshkosh--Garden County Health Services
 Osmond--Osmond General Hospital
 Papillion--Alegent Health Midlands Community Hosp.
 Pawnee City--Pawnee County Memorial Hospital
 Pender--Pender Community Hospital
 Plainview--Plainview Area Health System
 Red Cloud--Webster County Community Hospital
 Schuyler--Alegent Health Memorial Hospital
 Scottsbluff--Regional West Medical Center
 Scottsbluff--Western Pathology Consultants
 Seward--Memorial Hospital
 Sidney--Memorial Health Center
 St. Paul--Howard County Community Hospital
 Superior--Brodstone Memorial Hospital
 Syracuse--Community Memorial Hospital
 Tecumseh--Johnson County Hospital
 Tilden--Tilden Community Hospital
 Valentine--Cherry County Hospital
 Wahoo--Saunders County Health Services
 Wayne--Providence Medical Center
 West Point--St. Francis Memorial Hospital
 Winnebago--USPHS Indian Hospital
 York--York General Hospital

Other States:

Rapid City, SD--Rapid City Regional Hospital
 Sioux Falls, SD--Sioux Valley Hospital
 Yankton, SD--Sacred Heart Hospital
 Sioux City, IA--Mercy Medical Center

State cancer registries of Colorado, Iowa, Kansas,
 Missouri, South Dakota, and Wyoming

THE NEBRASKA HEALTH AND HUMAN SERVICES SYSTEM
IS COMMITTED TO AFFIRMATIVE ACTION/
EQUAL EMPLOYMENT OPPORTUNITIES AND DOES NOT
DISCRIMINATE IN DELIVERING BENEFITS OR SERVICES.
AA/EOE/ADA

NEBRASKA HEALTH AND HUMAN SERVICES SYSTEM

